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Dear Paul,

I was very touched by your letter and Christmas card and thank you for your observations. Dad buys regularly the latest books on the major scientific discoveries for laymen by authors such as Hawkin, Gribbin, Smolin, and I personally tried to tackle Feynman, Plank, and Einstein. Yes I've read about the string theories and of course a few words cannot replace the years of mathematical training to even start to understand the theories that these devout men have learnt to manipulate. Never-the-less a string is a string just as a paint brush is a paint brush.

I spent four days working (house painting) on the "Bassin d'Arcachon". It is an inland lagoon about 30 miles long and 10 miles wide. It is encircled by rich villas, power launches, and speckled amongst all this, tiny wooden houses made from roofing lattes and painted in second hand engine oil to protect them from the westerly winds. These houses contain a large Oyster cultivating community which over two or three generations has become a firmly established gastronomique tradition. Every morning before work whilst walking my dog Hallouf along the quay of a small yacht harbour I noticed a small shoal of fish always in the same corner, and like all shoals of fish they all moved in waves and undulations as though the hand of God was caressing their moods and directions: and every now and then a cheeky fish would role over and flash his silver belly at me through the murky waters. (note 1)

One of the images I use a lot in my description for the out-burst of thoughts in the brain is the "**fizzy lemonade bottle comparison**". When one is asleep the top is tightly screwed on and when one is awake the top is unscrewed and **idea bubbles** form all over the place and wiggle their way up to the surface.

This is how I imagine the start of our univers; a dimension, like an enormous balloon, where bubble entities appear like the bubbles in the bottle.

At the same time this comparison distinguishes from the traditional image of the big bang, an infinite high density **singularity** as discribed by Stephen Hawkin in his 'Pea Theorum', as the whole universe squashed into the size of a pea. (note. 2)

### Lemonade Singularity Entities

The lemonade bottle comparison paints the picture of primordial space time as always being more or less the same space/time dimension and that the **singularity** manifests as an infinite quantity of singularity entities which pop up all over the place.

Moreover the size of the univers/dimension has no importance looking from the outside so long as the singularity entities retain their **relativity** in the inside.

One asks the question why these "entity bubbles" form in this space/time dimension in the nothingness of the void? Is it to do with the size of the balloon of the universe or some sort of pressure within? This will be fodder for my next letter if you havden't got completely bored with this one!

I personally imagine the beginning of our universe as a space/time dimension which fills with a myriad of singularity entities which come and go as though they had always been there, and that in this singular universe its singularity is all around and everywhere.

Furthermore, relativity predicts that our own universe is itself nothing less than a singularity entity. The gravitational acceleration at its frontiers will eventually be the equivalent to the speed of light and anything which tries to get out will automatically be sucked back in again; hence by definition a black hole.

So to cut a long story short, when I got your letter I thought it was a wonderful sequel to my dreamy vision about the little fishes in the Basin d'Arcachon being primordial **string** entities, blown hither and thither by the dreams and moods of God. (nb. I am not at all religious and have no idea what or who God is.)

## Reflections on Light

### Construction of a Reflex

At present I haven't got much further with my theory of light except for a weekend spent behind my word processor (Mac) exploring the idea of the comparison of **compound reflexes** which make up our thoughts, and that of energy being an instantaneous reflexive link between two things, rather like a long distance handshake. See diagram Reflex

(Let me explain: a reflex being an **instant** reaction to a situation. This instant reaction being the sum of a collection of **events**, or histories, and these events little by little condense into a high concentrate decision or reflex; the more the training the faster the reflex, just until it appears to be instantaneous.) <I am tempted to call a reflex a high density decision.>

Hence I am associating light to the automatique nature of our bodily reflex functions. All the events or training which go into the construction of an automatique reflex can be described of as Feynmen would say "**the sum over the histories**".

I was waiting to telephone Dad in New Zealand to look for the echo but my two calls went through the optic cable and the communication was like talking to my next door neighbour. At first I cried "Ureka"; and after a few calculations realized that in these perfect conditions the delay would only be 0,067seconds and the echo 0,134 seconds which is very small as I discovered with my metronome. This has quite discouraged me. However if you do ring someone in New Zealand you will notice no time delay or echo on the digital optique fibre. I would just like to know what a tenth of a second sounds like!

I would love it to be as easy as that.

The Ice Caps of Vangel

Nearly 25 years ago I started to write "Individulantis" (note 3) in the form of a fiction storey and for this I invented a planet called "Vangel" which had two ice caps similar to those of Earth but much bigger and dryer. I called these regions the "Chrystal Wildernesses", lands of frozen water, crushed and shaken by earth quakes and bored and tunnelled by freak warm rains. It is an endless landscape of icy mountains, crevaces and caverns going deep into the heart of the planet concealing secret passages leading down to giant grottos with enormous stalactites and stalagmites of crystal which hum as air currents carress their arms like a bow drawn across the strings of some strange and mysterious musical instrument. When storms rage over the face of this magical and most wonderful planet the wind races down the frozen shafts and make the whole planet sing anthems.

One of the particularities of these caverns is the light, which filters down through the icy layers. It is so refracted that it flows out of the tips of the stalactites and stalagmites in the form of vapours filling the air with lurid streams of colours which the wind mingles in its finger tips. Then, in a spark of impatience, it will blow the smokey dreams away down into the black etherel passages leading to the icy laberynth of the void below.

Now this is only a storey but it illustrates how 25 years ago I believed that the speed of light was not invariable. Reading "Science et Avenir" April 2000 the article "Trous noirs de laboratoire" a swedish team lead by Lene Vestergaard Hau have succeeded in slowing down the speed of light to 20 meters per second instead of 300,000 meters per second. They anticape today slowing it down to two kilometers an hour. They do this by projecting lasor beams into a whirlpool of a very cold liquid gases. Apparently this recreates similar conditions to those of black holes in space?

Here we have the proof that light does travel at different speeds in different environements relative to others. It might be better and more correct to say: nothing travels "faster than light", rather than; nothing travels "faster than the speed of light (300000km/sec)".

I suggest that the link of light between the emitter and the recepteur is by definition instantaneous and relayed from its begining to its end. I think that we are sometime confuse by the concept of what is instantaneous or an intant. The definition of an instant being the time needed to conceive the propagation of light in different mediums, ethereal, liquid, solid or crystalline, dimensions. (from the Collins English dictionary; instant: very **breif** time, moment. Instantaneous: occuring with **almost** no delay.)

In this essay I shall try to illustrate how light travels, propagates, illuminates and affects without really describing what it is. It is perhaps our lot to have to describe something that we shall never see. We will study fundamental entities and concepts but these are nevertheless no more than descriptions themeselves. I hope to try and apprehend the roots of the tree of light by analysing three of its principal branches; science, philosophy and psychology. When I get stuck in one discipline I turn to another to fill the gap illustrating at the same time that they are inseparable.

## EPR Paradox and the Double Slit/Detecteur Experiment

Yes I have read a little about Einsteins "spooky action at a distance" or the EPR paradox/experiment (**E**instien, **P**odloski and **R**osen) which suggested that any two quantum entities which have reacted together will share the same information about either their postion or energy state however far apart they appear. This was based on

the premise that if two quantum entities collided like two billiard balls then, depending the speed and direction of the collision, one can predict the speed and direction of one by measuring the other. In other words a good billiard player can predict the force and speed needed to direct a second ball to a precise place at a precise time by inducing a collision with his first ball. If he is a very good player and you hide the second ball, if his first ball goes to the place he predicted, he will be able to tell you what his second ball has done. This is the principle of the EPR paradox. If a good scientist has information about the speed and direction of one quantum entity he should be able to predict the speed and direction of any other quantum entity which has reacted (collided) with it, and therefore have information instantaneously about the second entity at any distance.

The EPR paradox goes a little further than this. It predicts that whatever happens to the first quantum entity after the reaction (collision) will be reflected by the second. In other words if you stop the first ball on the table just after the collision the second will stop as if by magic. It should therefore be possible with quantum entities to intervene on one and predict the complementary reaction of the other whatever distance separates them.

The consequence of this prediction means that if we know the source of a reaction between two quantum entities then we can relay an information about one to the other at any distance in an instant be it from one side of a laboratory to another or to our neighbouring galaxy. Thus information can be relayed faster than the speed of light.

Don't forget that a quantum entity in science is usually regarded as one of the smallest composites of matter like an electron, a proton or a neutron and even a photon. Fortunately one of the particularities of quantum entities is that they are slightly unpredictable. One can never know more than half of any precise information about their speed or position at any one moment. This is called the uncertainty principle, which we shall talk a lot about later on. Some scientists worried that this principle could be by-passed by using the EPR paradox. I have read that it is impossible but I have never researched into the whys and wherefores.

The enigma of the EPR paradox challenged the concept of what is scientifically known as **local** reality. Local reality is the relationship that quantum particles have locally between each other obeying Newton's principle that to every action there is an equal and opposite reaction. **Non-locality** is the possibility of two quantum entities being able to interact instantaneously over great distances without any apparent physical relay in between them.

This enigma has been the passion of many great scientists and in particular; an American man John Wheeler, an Irish man John Bell and a French man Alain Aspect. John Wheeler thought of an experiment called the "**delayed choice experiment**" tested in the 1980s and in the same period Alain Aspect actualised John Bell's "inequality" experiment.

Wheeler's theory was proved by using the double slit experiment with an implanted detector, and Bell's theory was proved by Aspect's experiments using alternating polarising filters and detectors.

For our purposes I shall talk principally about the double slit experiment with a photon detector placed in between the second slit and the screen. (see diagram Double slit experiments) The detector would influence the interference pattern created by one single photon. If it was switched "on" there would be no interference pattern, (it would also detect which slit the photon went through and hence re-enforcing the theory that a photon is a particle). If the detector was left "off" the traditional interference pattern typical of a wave function would appear (reinforcing the theory that light is a wave).

What they managed to do was to turn the detector "on" after the photon started out on its voyage from the photon gun, and before its eventual arrival on the screen. The photon took 20 nano seconds to "fly" across the laboratory and the detector could be turned "on" and "off" at 10 nano-second intervals. (nano = 1 billionth 10<sup>-9</sup>)

He then set up two double slit experiments, one with a detector and one without. He could now influence the behavior of one photon after both photons had set off on their voyages. If the detector was switched "on" there would be no interference pattern for the photon detected; and the other photon would follow suit. Thus after the two photons had left the same atom, it would appear that the photon detected would relay back information to the other faster than the speed of light; hence the EPR paradox was confirmed.

Imagine an athletics meeting in which the sports organisers cannot decide whether or not it will be a race with or without hurdles. To start with there are no hurdles, the gun fires and the athletes start running. Suddenly the organisers decide it will be a hurdle race, so they pull a lever and hurdles spring up before the athletes.

Imagine now two sets of races one starting off in one direction and the other in the opposite direction. The gun shot starts the race, one team runs in one direction and the other in the opposite direction. What is extraordinary is that if the organisers decide hurdles for one team, the other team will immediately copy them by jumping over invisible hurdles.

It would seem that without knowing what the organisers will do before the start of the race the reaction of one team is relayed by some sort of magic feedback system to the other so that whatever one team will do, the other will follow suit in complicity. What's more an observer can predict the behaviour of one team by watching the other.

In these experiments it is important to understand that we are talking about individual photons let out two at a time from a controlled chemical reaction.

Although I have not talked about Aspect's experiments it is interesting to observe that he studied the polarising effects of light. The two photons released at the same time are in principle of opposite polarities, just as two billiard balls which collided will automatically spin in opposite directions.

Let me explain more clearly. Two photons leave an atom, at the same time, in two opposed directions, at the speed of light. One walks towards a double slit experiment and on the way he meets a detector which is switched "on" and says to him "today you must behave like a particle so that when you arrive at the screen in front you don't make any bother or interference pattern". "Hang on", says the particle; "I haven't told my wife how to behave and there's no detector where she is going so she'll obviously create a lot of bother (an interference pattern)" "Don't worry" says God "I'll nip back in time and tell her to behave herself when she arrives" Now, as you know I don't believe God has got anything to do with this experiment, so how do you explain why the two photons who left the same atom at the same time (react together) **always** behave in the same way.

## Two Questions

The first enigma is what is referred to as "local reality". When the detector is switched on it cancels the duality of one and the other automatically and sympathetically follows suit having left the same atom. Why are we led to believe the destiny of one is "altered at a distance". Some scientists think the photon "knows" whether or not the detector is going to be switched on or off and others; that quantum particles are influenced by the intentions of the experimenter.

The second question is the enigma of the double slit experiment itself; when the **detector** is switched "on" there is no **interference pattern**; and when left "off" there appears the traditional interference pattern.

### The Silver Cord

One of my favourite crazy esoteric writers describes the soul of a man being attached to a greater soul in a "higher dimension" by a long thin silver cord. When one dies one's soul detaches itself from its fleshy envelope and it flies back along the silver cord to the super soul .

Let us tackle the first question, the liason between the two separated photons at a distance (the scientific abandon of "local reality"). If the speed of light is infinite once a liasion has been established then in some way the two photons will resemble two tubes, one which sets off in one direction with one polarity, and the other in a complimentary direction with a complimentary polarity. These "tubes" must have an anchorage between their place of arrival and their place of departure so that the destination of the two photons are attached, by what could be described as a pipeline. The result of one will condition the other across this breach of space-time.

How does one explain the 20 nano-seconds that the two photons take to complete their voyage especially when the computer, in both the Wheeler and Aspect experiments was turning on and off the detector at several nano-second intervals. (10 nano seconds for the Aspect experiment).

I shall have to reply that the 20 nano seconds it took for the photons to voyage across the laboratory were not the photons leaving the atom, disconnecting, and walking all by themselves to the other side. It was the time of the liaison or hand shake between the atoms at the two destinations. This lapse of time I have often referred to in my writing as an **instant**, or an **event**. (note 4)

Don't forget that when a photon leaves one atom it is received else-where, like in the Fennymann diagrams. See diagram The Four fundamental Forces You cannot shake hands with a man who puts his hands behind his head.

However if you shake hands with two men at the same time you will have to shake one with the left hand and the other with the right. Furthermore if one pulls you towards him, you will automatically pull the other with you. "You" resemble the atom reaching out with your photon hands and shaking with your friends on the screens.

### The Light Beam Suckers

How can we explain the break down of the interference pattern when the detector is switched on. I think our first conceptual error about light is that we think "something generates" it and, which in turn is "projected" onto something which is "illuminated".

It is true that one can switch on a torch and shine it on an objet; but this is only half the story. The object which is illuminated has as much to do with the result as the object which is doing the illuminating.

It is as if the object which is being illuminated switches on a, mailstrom, or whirlpool, light sucking machine; which, in some way stimulates you to turn on your torch and shine it's beam at it.

In other words whereas traditionally we have a tendency to think that we control our world, we are only sharing half the control with a complementary element. You turn on your torch and illuminate an objet, but what **you did not know** is that the objet in question turned on a sucking machine which made you shine your beam on it!

Don't forget that the two photons which have left the same chemical reaction have complementary polarities so that we must assume the sucking machines consist of complementary polarity suckers. If the two photons leaving the same atom are connected in some way so must be the suckers!

This new way of looking at things changes everything but at the same time simplifies things. The hand shake now concerns two equal elements. The man who reaches out with his light beam from his torch, and the other, the man who reaches out with his light sucking machine.

What is interesting is the idea of the one who thinks he is in total control of all his acts is only in fact totally in control of half of everything he does!

This principle correlates perfectly with some of the fundamental conceptions of the "quantum world" for example:

1/ the half life in nuclear decay: half of any radio-active body will decay in a certain time but which half or which atoms we cannot predict.

2/ Heisenberg's uncertainty principle which stipulates that we can never know more than half the details about the speed/energy or position/direction of a quantum entity.

3/ Pauli's exclusion principle, no two quantum entities can share the same quantum numbers in any one precise energy level dimension. (Referring to the speed and position of electrons in any one orbit around an atom.)

One could call this **the dynamic complementarity of the universes in which we live.**

If the spirit of man is only half the description his reflexes and nature, like a quantum entity, somewhere out there must be the other half, his complement "his sucker" and together they push and pull along the progression of their lives dancing in the musky mists of time.

### -The Intimate Room

Not only do we tend to look at light from the generator's point of view but we also sometimes try to describe it as a particle, as an object which travels from A to B, which, when it touches its target lights it up; like a mini cannon ball of fire exploding on the surface and illuminating all things around it. These light balls are called photons.

In the "double slit/detector experiment" the "light photons" going through undetected leave an interference pattern whereas those detected leave a normal plain bright patch without interference.

The other day I was painting a room with two windows and one door. The door was closed but the windows were ajar. I closed one window vigorously and the other was sucked open. (Windows in France open inwardly.) Now, if I wanted to close the other window, all I had to do was to pull my window open.

Ofcourse while the door was shut the mass of air in the room was acting like an arm in the photon hand shake. One window opening abruptly would push the other shut like the action in a hydraulic piston.

Here is an enigma:- what happens if one opens the door. There is a leak in the hydraulic arm. I open the window and air comes in through the door as well as the window, hence the window does not move.

This might be an explanation of what is happening in the double slit experiment. Let's consider light as a tunnel, like a very long room with two windows one at each end and a door in the middle. When the intimacy of the room is respected, with the door shut, the communication between the two windows is perfect.

Now if you wanted to spy inside the tunnel and betray the intimacy of the room, to see which window was open and which was closed; in doing so, you will break the connection between the two complementary ends of the tunnel.

Nb; This does not explain the breakdown of the interference pattern, but it illustrates how the air in the closed room acts as one singular mass. When the door is open the "singular mass" becomes part of a "greater singular mass" of air. The closed room air is a compact unified dimension. The door opens into a larger looser dimension.

### The Painted Retina

The retina of your eye can be compared to a surface "illuminated" by a photon. The scene in front of you reflects light which passes through the lens and affects the retina. Here we are talking of thousands and millions of photons but the effect is the same since the image projected and the image received belong to their respective instants or events.

Instant number one; the univers smiles.

Instant number two; you take a photo with your eye.

When you see a bird in the garden "in the corner of your eye" you perceive it but you don't look at it. Your perception is attracted by something which moves which you investigate, hunt and eventually find (the bird).

This illustrates how your retina sees everything in front of it at one time or instant. **All the light outside** and in front of your eye has a *liaison* with **all the retina** .

Don't confuse this with what you look at. What you look at is what you choose to see or interpret. If you see a bird in the corner of your eye you choose to interpret this image by closing down your concentration and focusing on this image.

### -Linear and Tabloid Descriptions of the Univers

This brings us to the question why do we need to see light as a particle and how can this resemblance be explained?

I have already suggested that light could be compared to a reflex in the construction of a human concept. In other words it is the summon of multiple lessons/apprenticeships or histories of the past which construct an automatic reply (reflection) to an event in the present.

Is light therefore the link between two dimensions or events? Imagine a dimension a picture or a screen or a window at the end of a tunnel. Light can be compared to the air in the tunnel which pulls one window open when the other is closed abruptly. It can also be compared to the **time**, instant or event, in between the two events like the space in between two photographs in the film of life.

Light, like the air in the tunnel or the space in between the two photos, painting the storey an event from two complimentary points of view, but by definition virtual, fluid like music; a linear description of the universe

Each end of the tunnel, each window, is like a painting or conception of an event, a reparse or photograph, which can be described as a tabloid description of the universe.

One could nearly say a tabloid description is a vertical two dimensional upright description of the universe made up of particules; where-as a linear description a horizontal, one dimensional description of the universe, like a song, a storey or a composition of music . (note 5)

In between two events, two paintings, light is like a fluid which is the summon of the past and a bursting out, a shining forth into the future. In other words it is a painting of all the events which went into the construction of an instant reaction between two paintings. Light is like a fluid painting; a flash of all the stories which

make up the fastest communication between two events, photos, dimensions or **plage d'épanouissements**. (A literal translation could be "the blooming fields" see note 5). One could define light as the sublime link or **affect** between two **events**. (note 7)

So if light is a particle it is an amalgam of events; a ball of histories (resembles Feynman's idea). See diagram "Who is Who".

## The Plage d'Épanouissement

### -The Plage d'Épanouissement and the Quantum Entity

(To understand this better you really need to read Individualantis the Eneigmas of Science Philosophy and Psychology)

At the start of my writings I was always attentive to numbers and one of the numbers which intrigued me was the number "three". Many religions and philosophers have reduced the univers to three fundamental components:-

Trinity; the Father the Son and the Holy ghost

Pascal: the good, the beauty, and the truth

Smolin: gravity, relativity, and quantum

Spoken language: subject, verb and object.

Prime colours: red blue and yellow.

Prime notes: doh, me and soh

Free Masons: nature, reason and wisdom.

See diagram The Universel Nucleon

The universal nucleon is the first building brick to my **Theory Of | Everything** (TOE).

In science we have the three expressions; a singular nature, an energy potential and a probability area or space time dimension.

In psychology we have the individuel who constructs his world with his senses, perception; acts upon the world with his reflexes and getstures, and meditates upon the consequences with his thoughts and reflections; conception.

In philosophy: the individual is born in the quete for his compliment guided by his work and corrected along his path by the consensus.

This is how I reduce all disciplines to the same starting place.

What is interesting at this point in our exploration of the concept of light is that we have just considered it as a fluid or virtual event between two complimentary events; in other words we have reduced the univers to three fundamental manifestations; the event received, conceived and reflected. The univers being a closed dimension or field of activity.

In French I call this field or dimension a "plage d'épanouissement":- the blooming feild. (plage a clearly defined space or surface; <plage lumineuse: equally illuminated surface> ) It is a totally defined; area, environnement, or universe:

described by its horizon/frontiers, like an octave, which encompasses a probability area in which one can find two fundamental complimentary entities or characters.

Each one of the two entities itself has three fundamental characteristics or descriptions.

- 1/ an energy value, effect or impact
- 2/ a unique nature or identity spin or direction which reverts to it's singularity
- 3/ a virtuel characteristic such as a space/time integral

(One of the three characteristics, itself, being part of its make up, the energy/space, space time, or singular event.)

Is a quantum entity a plage d'épanouissement? I consider a quantum entity as an independant singular object dependant upon its complementarity whereas a plage d'épanouissement an independant virtual object independant of any complementarity. In the absolute the quantum entitiy is the singular identified nature, the thing, whereas a plage d'épanouissement; the virtual thing which exists but cannot be detected which comports that which as we conceive as space time or energy space. In a kingdom the more you approach the king the more sure you are of his identity but the less you know about his kingdom and the more you approach the fronteers of his kingdom the less sure you are that he is king. The king and queen are the quantum entities of the kingdom which is the plage d'épanouissement.

By definition any one dimension or plage d'épanouissement must contain at least two complementary elements since, and following Heisenburgs exclusion principle one can never know more than half the characteristics of any one quantum entity. Moreover, Wolfgang Pauli's exclusion principal confirms that in any one energy level (dimension) no two quantum entities can occupy the same position or energy state at one same time. (This is a modern interpretation of what he said. In his initial theory he said that no two quantum entities can share the same quantum numbers in the same energy state.)

The difference between a quantum entitiy and a plage d'épanouissement is that in absolute circumstances a quantum entity needs a complement to be complete and can never be more than half of everything, whereas a plage d'épanouissement is so complete that it doesn't need anything and you don't even know that it is there. One is polarised and has a charge whereas the other has a neutral charge and is by definition virtual.

It must be said that their absolute states are sublime and that most of the time they are, a little more of one or a little less of the other. Moreover the effect of moving from one state to another gives them a second polarity. In other words a quantum entity evolves into a plage d'épanouissement and visa versa.

In the begining God was the universe the plage d'épanouissement but he couldn't see it all so he created a wife to tell him what was what was behind him. Eventually he got tired so he sent his wife on holiday to another universe. Together they saw the whole universe as it truly was. His wife approaching was one polarity and he going was another. Note 8

### -Triangular Complimentarity

This brought me to one of my biggest problems. If a quantum entity or plage d'épanouissement is made of three fundamental characteristics, how can a triangular entity have a complement?

I resolved this problem last year at the moment of the death of my mother and at that same time I played in the second violins, Mozart's Requiem and started going out with my new fiancée (who has become my wife). One of the most intense moments of my life.

A triangular complementarity between quantum entities/plage d'épanouissement can exist due to their polarity. You will understand this if you look at the diagrams which I enclose.

See diagram;- Trinity Harmony

In the diagram you will see eight discs. Each disc is divided into three segments:

**raptor**, energetic, reflective; (note no.9)

**nature**, receptive, singular;

and **virtual**, spacio-temporal, conceptuel.

When two perfectly complementary quantum entities come together in the same spin (polarity) the quantum entities are in perfect harmony throughout the totality of the revolution.

The same spin or polarity means that whilst together in this mode they share the same vision, perspective, ethical values, (light), but are perfectly complimentary. This polarity or perspective enables them to align with one another to form a greater more complex quantum entity in a greater dimension; the one representing the singular nature, the other the energy value, and the polarity itself the virtual element.

When the two quantum entities of the plage d'épanouissement are together (I call them Les Amants; in french "the lovers") they are perfectly complementary (perfectly opposite). When they are apart, or in complementary polarities/spins, they are in the complicity mode. (They share the same point of view.) Together they complete each other and apart they fight the same battle.

(It has taken me more than two years to understand this next concept thoroughly)

In the complicity mode two entities or individuals (friends or colleagues or associates, not the two ideal lovers) come together in complicity to do a projet together. The rules or ethics of the project are their common vision of how the project should be done and how it should turn out. During the project they have to make concessions and at one point they are at complete exasperation, a point of complete complementarity (what I call the moment of the message), then as the project succeeds they leave in complicity as friends again. They come together as warriors against a common foe, fight together nevertheless defending their own interests, kings of their own castles, then separate as noble warriors should. When they are defending their own castles they are like the lovers except in a negative phase. (See diagrams ; Mode of Harmony and Moment of the Message)

Lovers in a complementary phase are in a **positive** harmonious state.

When the lovers separate, they become individuals and thus independant "plage d'épanouissements" on their own in what could be described as a **neutral state**.

When they meet up, with someone in complicity, kings of thier own castles fighting a common foe, entrepreneurs and their clients, bosses and workers, parents and their children, teachers and their pupils; they all go through the same process. They come together in a complice phase; go through to a complementary **negative** harmonious state (non lovers in a "lover state") and then leave in a complice phase.

If a human conscience, an individuel, is no more than a **complex quantum entity** the consensus or community must be his plage d'épanouissement in which he dances with his compliment. The polarity of the plage d'épanouissement is the dialogue, code of ethics, traditions and rules of commerce, which enables communication trade and exchange between different communities or consensuses. Whilst the community is looking inwards it is a plage d'épanouissement whereas when it interacts with another community it is simply a greater complex quantum entity. See diagram First Quantum Community

For the moment it is important to understand how polarity in a plage d'épanouissement enables two quantum entities to live in three different relative states. See diagram The Four Nucleons (I shall not lookn at the gravity nucleon until right at

the end of my thesis.)

-Complementary quantum entities with identical polarity/spin (together) make a **positive charge** state.

-**neutral expression** is when a complex quantum entity has no charge and is by definition a *plage d'épanouissement*.

- Complice quantum entities who undertake a project together and at one moment enter into a complimentary phase make a **negative charge state** (but only **half** of the value of that of the positive because as they rotate they go from an identical complice form to a complimentary opposing form).

A *plage d'épanouissement* in principle could be considered as virtual since without charge it cannot be detected. Whether completely virtual or not is to be questioned since neutral particles in science (neutrons and neutrinos) can be detected by gravitation and collision.

If a human being is a quantum entity he is so infinitely complicated that he is rarely totally in anyone or other of these three states but "normally" in a state of duality fluctuating between passion, concentration, and a neutral restful state; the extremes of which manifest in the forms of hysteria, schizophrenia and autism.

Nevertheless it is the extremes or the horizons of our perceivable universes, which enable us to look at ourselves and our relations with all other things and to focalise on constant models.

## The Quantum Inn

Now we have a few brush strokes of this new painting of the universe, including the fairy tale quantum world lets go back to the double slit experiment and look a little closer at the relations between the photon gun, the screen, and the detector.

Imagine in Quantum Land there is a pub with two doors facing a long bar. One door would lead to the men's toilet and the other to the women's.

Both doors of the pub are brand new so that all the people facing the bar cannot tell which door has been opened. When someone walks in there is a "general stir" along the bar, the women attracted by a potential man from the man side door and, the men by a potential woman from the woman side. Since the doors are identical no one knows which door has been opened so everybody looks at the barman facing the doors who obviously knows which door the person has come through and whether it is, a handsome young prince or, a beautiful young princess.

Now the barman, who is a more than normal young man, lights up when it is a woman and turns away when it is a man. Since he is married he doesn't want anyone to know he is looking at another woman so he pretends to look elsewhere. Half of the people in the bar know him jolly well so that, when he lights up, they all know exactly which door has been opened. On the other hand all the strangers in the pub do not know him and take him for face value.

When a lady comes in through the lady door the barman feeling guilty immediately looks at anything and everything except what he is really interested in. This immediately creates a very funny reaction along the bar. The groups of men along the bar who know him are all a little excited and all try to get in a little look themselves whilst no one else is looking. Now the women who are not regulars, seeing the barman, not look, at the woman door think a man must have come in. Since he could be a handsome young prince and they too are aroused.

The result is that the groups of regulars and strangers equally spaced along the bar have complimentary reactions when one of the doors is opened. Everybody is

looking for someone but does not want to get caught out for being a dirty old man (or woman). So that when Miss World walks in, the barman's eyes nearly pop out of his head but he promptly looks elsewhere, and the locals are bending over backwards to get a sly glance and the women strangers are itching for the first opportunity to look at the man door.

Here we have the beginning of an interference pattern; we have two groups with two complimentary reactions the **local men and the women strangers** are one group who are "interested"; and the **local women and the men strangers** who are "not interest". (Interested or not interested can be regarded as an "effect" or "polarity")

A "general stir" can be understood as light falling on a screen where there is no duality (no barman) and the reaction is individual: all the men are illuminated by a women entering, and all the women by a men entering. The resonance is uniform. The interference is regular along the bar like a "general stir".

When the light is obliged to pass through an "agent", or "singularity" (barman) there is an amplification of the resonance according to the size of the groups in the *plage d'épanouissement* (the bar).

I would also postulate that the effect or resonance is amplified from its the voyage down to the nucleon of the atom and back up to the surface of the screen (*plage d'épanouissement*). See diagram the Pea and the Eiffel Tower

This is how I explain the interference pattern.

### The Squeaky Door Detector

Now in Quantum Land things grow old just like you and me. Little by little the pub grew older and the barman, having a tendency to look at things or beings who didn't concern him, instead of getting on with his job, forgot to oil the hinges of the doors; so that little by little, the man side door began to squeak so that both strangers and locals immediately knew whether it was a man or woman who came into the pub. When the "man door" opened all the women equally spaced along the bar would want to get a peep. In other words the **interference** along the bar was **regular**.

When the door squeaks only one person in two, all along the bar, is either attracted or repulsed. Whereas, as we know, if the doors are well oiled the information will pass through the barman (singularity on the screen) and the attraction will be in groups, or, in other words in an **interference pattern**.

The moral of the story is that while pub doors are well oiled people love to go and have a drink, because no-one knows who is who, or what is what and the game is rather fun, whereas when a detector is introduced, like a squeaking door, it gives the game away and the customers lose interest (interest), the pub loses a **dimension** (it is no longer an independent individual dimension).

The extra duality created by the barman and his reaction between locals and strangers introduces the concept of intimacy and discretion. Everybody wants to know who came in but no one is allowed to look directly because they are supposed to be doing something else, like talking to a friend, serving a drink or playing darts.

The customers cannot look without turning round whereas the barman can only look from the **corner** of his eyes. Just as the door opening in the room with two windows breaks the bond of air in between them; the squeaking door in the pub diminishes the "amplitude of discretion" in the pub. It takes the fun out of having a barman.

So you might think that you know who you are and what you want in life but your compliment is everything you don't know and didn't expect.

She sees the other side of the mountain,  
Hears the band playing when you are not listening,  
And feeds her hair to the wind whilest you wander;  
She is everything you never dreamed of.

How then can you find out what is complimentary to you?  
One has much more of a pure and complete reflection of oneself through the discrete and secret glances in dualistic situations than someone trying to tell you what a nice guy you are!  
"I'll have a double scotch on the rocks please".

### Aspects of the Double Slit Duality.

The Quantum Pub example is quite interesting because it incorporates quite a lot of similarities which can help us understand the double slit experiment.

- 1/ The light or message "coming into" (**appearing in**) the bar has a sex or polarity.
- 2/ Without the double slits (the barman) the screen lights up uniformly. All the customers at the bar ("quantum entities on the screen") have a polarity which is either attractive or repulsive to the photon.
- 3/ In between the double slits and the screen a new dimension is created (plage d'épanouissement), a "probability area" with a singularity (the barman). Whilst the singularity (the barman) on the screen is "behind the bar", in "discretion", there is the classical wave interference pattern along the bar. The waves emitted from the resonance of two distinct groups of customers; "local men and visiting women" and "visiting men and local women".
- 4/ The classical wave interference pattern is created by a duality amongst the customers; those who are regulars and those who are strangers in equally spaced groups along the bar. In other words half the customers (particules/entities on the screen) have a complice relation with the barman (singularity) and know what he has seen and therefore react in a complice way; whereas the strangers will react in a complementary way taking him for face value.

One could say that some groups of particles/entities standing together at the bar are spinning in one direction (locals) and the others the opposite (strangers); the direction of their spins influencing their opposing reactions focalised through the barman to a light particle person coming through the pub door.

- 5/ Imagine when the photon enters everybody in the bar spins once, but only the barman and the person entering (photon and singularity) react. When the groups of particles/entities have turned round once they all refer to the singularity (locals/strangers to the barman) to see how to react. In other words the groups or particles/entities at the bar (on the screen) have to turn round twice before they show their faces.

If we define the period between the appearance of the photon and the reaction of the particles on the screen (the clients) as an event in a dimension (plage d'épanouissement), then the particles on the screen (clients at the bar) who have to turn round twice must be regarded as half events or half spin particles.

Thus the photon from its entrance to its manifestation on the screen can be described as a one spin event (a boson) and the groups along the bar, half spin particles (fermions). "Bosons" are particles associated with the transmission of forces like photons and gravitons, and "fermions" particles that make up what we usually think of as the material world like protons, neutrons and electrons.

6/ If you neutralise the singularity (the barman) by introducing a photon detector (the "squeaking door") betraying the polarity of the intruder; there will be no more interference pattern. The particles will no longer react as groups but as individuals. The interference will be uniform along the screen without the intermediary of a singularity walking up and down the bar creating "group reactions".

Imagine the barman being rather like an electron serving the nucleons (group of customers). The photon reacts with the screen through the barman, the electron, who in turn reacts with his clients the nucleons.

The barman himself could be described as a "two door entity" down to the nucleons.

7/ The photon appears in the bar through the squeaking man door. Everybody (the fermions) in the bar immediately knows what sex (polarity) has come in. In this case they only have wait one spin to react.

When the detector is introduced the reaction between the photon (bosons) and the nucleons (fermions) is a one spin reaction.

8/ One could say also that the detector aligns the barman with the truth. When a woman comes through the non-squeaking door he is obliged to look at her, to follow his natural polarity.

And one can even go further and ask: are the detector and the barman attached in some way.

Imagine instead of using a squeaking door detector we use his wife. We place his wife beside the women's door to survey him. When a woman walks in he is obliged to look at his wife (with of course a comforting obsequious smile). Where-as when a man walks through the man side door he is obliged to give a challenging valiant glare to make sure that he does not run off with his wife.

9/ The whole pub with a "detecteur" loses its quality as an independent reacting unit; or dimension (or place d'épanouissement) on its own. The electron has a wife and thus the bar becomes "a stable ring of electrons". A place which no longer has an internal personal adventure kingdom in which one can find a lonely young princess.

One could say the **intimacy** of the bar is situated in between the two doors the (double slits) and the bar (the screen). This place or area could be defined as a **complex quantum entity** itself. Once the **discretion** is broken the interest leaves the interior of the pub and the constituents of the pub aspire to further **horizons**; a greater place d'épanouissement.

In other words the discretion of the barman creates a secular reacting dimension or place rather like the construction of different energy levels or orbits of electrons which build up around the nucleus of an atom.

It is confusing since by definition it manifests as a dimension or place (beach) but is by definition a quantum entity because it is in liaison with the exterior.

Once the detector is introduced, the bar loses this independent secular quality and all the occupants become independent quantum entities of a greater complex quantum entity or place d'épanouissement.

The singularity or barman (electron) loses his duality in the presence of his wife (an imposed complimentary electron in the detector) until she returns from the doors (double slits) to behind the bar (the screen) to help him do his job properly and live happily ever after.

### The Liaison Between the Photon Gun and the Screen.

I once read a book on popular Indian saints. One story describes the visit of Babagi to a saint who needed guidance. Babagi supposedly lives in the Himalayas and is reputed to be

very old, thousand of years old. His job is to watch over humanity.

When he visited, he would appear before the person in question as a pin prick. His form would then grow and grow and enlarge as if he were approaching from afar. To begin with one could say that his image was so small that it was sublime.

I accorded great importance to the concept of the sublime in my first book *Individulantis*. I treated it as the compliment to the concept of "gravity".

I was also interested in the idea of subliminal images exploited mainly in publicity; the insertion of a diapositive in the rapid unrolling of many images which make up a film; one diapositive of a bottle of Coca-cola in the twenty five diapositives per second projected.

Just as Babaji came from afar as an unperceptable pin prick I suspect people **perceive** things in a subliminal fashion long before they **conceive** them.

At this point I would like to ask the question:- what is light? Is it a photon shot out of a light bulb which runs across the universe at the speed of light? Or is it a link between two objects that grows and grows until it shines with a "light effect".

John Gribbins describes the enigma of relativity very clearly in his book "Schrodigners Cat": the light which **comes** from the pole star theoretically takes light years to make the voyage whereas the photon, itself travelling at the speed of light, thinks the voyage is instantaneous. The reason being, for anything travelling at the speed of light, time stops still.

Whether or not relativity is correct, there is certainly an enigma with regards to its perception.

When I talk about the speed of light I am describing the installation of a link (or effect) between two objects or dimensions.

Imagine that you and I live each side of a very high mountain. We would like to talk to each other without climbing over the top so we drill a hole through. At first the hole is only the size of a thimble and we can only see each others eyes, so we make it wider, the size of a football, and there we can see our heads. After a very long time our hole is the size of a man and we can walk through comfortably. From the size of a thimble, to the man-sized hole it took a very long time. This is the time needed for us to create the visual link to enable us to look at each other wholly. Where-as before we had to climb over the mountain, now the hole is complete all we have to do is to stand in front of it.

My vision of the univers is that there are subliminal links between everything like the first tiny hole we made in the mountain; there was a hole there anyway. What takes time is not for the vision to come across space but the time to enlarge the hole, to establish the effect and to increase the amplitude of that which exists already. Once the effect is established the communication is instant like the air in the room opening and shutting the windows.

What manifests as the speed of light is the widening or shrinking of the holes back and forth across the universe to the conceptuel significance as we see as "light" in our humain dimension.

This is why, in my descriptions, I speak of the photon appearing as opposed to arriving at a destination. We could say perceivable becoming conceivable. Noticing something in the corner of our eye then recognising it in our spirit is our way of conceptualising things like information falling into ready made pigeon holes.

I am not sure that it is quite as simple as all that but it is definately better than the image of a "photon ball" shot out across the universe.

Consequently in the Aspects experiment one might say that the photons did not know in advance whether or not the detector was on because the photon gun and the screen were already attached or linked together by a string (or effect). What eventually looked like the time it took for the photons to walk across the laboratory was the time it took for the communicatioin to gather up the amplitude necessary to

perceive the effect on the screen. We saw a 20 nano-second **instant (or event)** in which a link was established between an atom and a screen covering a surface of say  $0.1\text{m}^2$  (30cms x 30cms). The interruption by the detector occurs during the development of that **instant** (or event) and therefore appears to have been detected or conceived in advance.

I speculate that the non-interference pattern (general stir) appears after the detector is switched on. In other words before the detector is switched on the interference pattern lights but is effaced as soon as the detector is switched on. Only half of the interference effect will have manifested on the screen before the detector annihilates it. Have we the time to perceive this?

The measurements in the Aspect experiment are so small that I doubt that the scientists knew for sure whether the non-interference pattern happens from the middle of the 20 nano-second instant or not.

There is another consideration to take into account which is the acceleration of the amplitude or effect which I suspect to be geometrically progressive. At first the effect is nearly undetectable and grows very slowly. It progresses little by little until, gradually, it speeds up, and up, and up, until it blooms in the new dimension (on the screen). (s'épanouisse dans le nouveau plage)

Now what appears as the constant of the speed of light is the manifestation of an effect between an emitter and a detector or the conception of a reaction between two different quantum entities in two different dimensions or plages.

The acceleration from a perception of a sublime pin prick to the full bodied conception of what is concealed could be considered as the perception of a sublime effect to the conception of the gravity of its universal effect in a given plage d'épanouissement.

The human dimension or plage d'épanouissement is a pin prick planet in an insignificant solar system, on the outskirts of a Mailsroëm of stars called the Milkyway which is only one tiny particle in a mass of galaxies which resembles a giant cheese with holes which we haven't even started to find the limits. Perhaps one day a giant cheese knife will slice through the universe and then we will be able to say; "at last the end of the universe", as we look out into the eternity of a giant superstore!

## The Bose Einstein Super-Atom

When coming home from my Saturday morning shopping I noticed a group of horse chestnut trees in full flower with their fresh spring leaves. The group was imposing and full of hope.

What is particular to groups of trees like these is they all seem to **know** how much space there is between each other so as to give the impression that there is only one tree. The leaves and branches are so equally and harmoniously deployed that one asks the question if together they become associated to some kind of collective conscience or "singular conscience" representing the "super tree".

What is the interference pattern on the screen if not the echo or resonance in a higher dimension of the link between two singularities.

Don't forget that the size of a nucleon of an atom is like a pea sitting on top of the Eiffel tower. The probability area where its electrons are to be found can be described by a pea sized man swinging a one hundred meter string around his head. Therefore when an electron hits the screen of a television its a long way down to the nucleons. See diagram The Pea and the Eiffel Tower

I explained how the photon acting as a singular effect reacts to a singularity entity

the barman behind the counter like an electron on the exterior of an atom.

In the quantum pub story a photon appears in the doorway. He enters in to the dimension of the pub interior. The barman perceives him from the bar (representing the frontier or the screen which the photon lights up). The probability area (screen lit up) is represented by the length of the bar along which the barman walks to serve his customers, so that when the photon appears the barman could be anywhere along the area of the bar.

The screen which a photon hits can be compared to as a probability area, like a group of trees or a bar. The bar has a singularity entity, an electron, which perceives it like the singular conscience of the group of trees. The singular entity climbs all the way down to the nucleons, his voting population, the customers or trees, describes the situation outside and then climbs all the way back to the probability area to reflect the general opinion of the probability area.

I don't exclude a wave theory effect to explain the interference pattern because I visualise the link between things as a push me pull you action an electric shock effect. However the descriptions of the route back and forth from the screen down to the nucleons is an essential part of the explanation.

### Polarity of a Plage d'Épanouissement

Lets have a look at the term polarity in the context of a dimension or a plage d'épanouissement. Don't forget that a plage d'épanouissement is a dimension in which there is an expression of harmony with two complimentary facets who have two fundamental characteristics: an energy value or momentum, and an identity or position. A plage d'épanouissement can have two forms spheric or linear which I refer to as tabloid or musical.

The polarity in a tabloid plage d'épanouissement is very easy to understand. It depends upon the sense in which it is perceived; from in front or from behind. One of the fundamental conditions of our sensory perception is that we can only look at things from one direction, or one point of view. Hold this page out in front of you. You perceive the front and if someone else perceives the back of the page; together you perceive the whole of the page.

You might think that in a linear plage d'épanouissement the polarity depends upon the sense of the unrolling of time. This is a mistake. The duality in linear plage d'épanouissement is perceived in integrals and again one of the fundamental conditions of our sensory perception is to only perceive half of the unrolling of a linear plage d'épanouissement as time goes by. Think of perceiving events like breathing; you breath in an event and then you react to it. When you react to an event you cannot perceive an incoming event at the same time. In other words you cannot breath in when you're breathing out. This means you have a frequency of perception which could be associated to the frequency of the extinction of images on the retina as they are relayed to the brain. See diagram "The Unrolling of Time"

What is rather romantic is that to perceive the whole universe you have to be two; in tabloid perception one person looks at the front of the plage d'épanouissement where-as the other looks at the back. In linear perception one perceives whilst the other reacts and when one reacts the other perceives, so that there is always a continuum of perception. (While one is raptor the other is nature.)

In conclusion the polarity in tabloid harmony is defined by the direction in which we perceive the plage d'épanouissement; and in linear harmony the frequency with which we look; the "in breaths" or "out breaths".

### Singularity and the Passage of Time

"Los was the Prophet of the Lord  
 And the sons of Los build moments and minutes and hours  
 And days and months and years and ages and periods, wondrous buildings  
 And every moment has a couch of gold for soft repose  
 And in between every two moments stands the daughter of Beulah  
 To feed the sleepers on their couches with maternal cares  
 Every time less than a pulsation of an artery  
 Is equal in its period and value to six thousand years  
 For in this period the poet's work is done."

(Probably a quotation for the poet William Blake taken from "The Horse's Mouth" by Joyce Carey)

Another idea I would like to clarify is the concept of a **singularity**. I have had three encounters:

1/ From Stephen Hawking's Pea Theorem- a singularity being the point at which, inside a black hole, everything is compressed into a central high density pea.

2/ The tail of a drop of water which falls from a tap; the drop hangs on with the force of its surface tension as it fills up; little by little it elongates to a point at which it breaks away as an independent drop and falls freely to the ground. The point at which a drop of water snaps off is referred to as a singularity.

3/ When you throw a stone into the sky there will be a time when it will want to come back to earth. The singularity is at this point, when the upward acceleration stops and the downward acceleration starts.

I have mentioned that we conceive time like the turning of a film; diapositif by diapositif so that we only conceive half of the time going by since there is a moment which exists between each diapositif.

What is interesting is one can describe the phase "drop" (see diagram The Unrolling of Time) as a phase d'épanouissement tabloid and the phase elongation as a phase d'épanouissement linear. Now one can see that in the phase tabloid the singularity is characterized by the center of gravity somewhere in the center of the drop; and in the phase linear the singularity at its most singular moment virtual.

At one same instant in time we can see that if we add the "drop of time" and the "anti-drop of time" when one is at its most singular virtual moment the other is at its most ample identity where the center of gravity must by definition be conceived as the most central point of this amplitude.

We can then go on to say the "center of gravity" of one situation is the virtual element of another (black hole?).

### The Nature of a Phase d'Épanouissement

Let us now look for the quantum entity in the phase d'épanouissement. In Einstein's equation let us call the mass "M" the singularity or quantum entity and what have we got left:-

$$E=MC^2 \quad \text{or} \quad E= M \times \frac{d^2}{t}$$

d=distance    t=time

The equation reads:- "the energetic effect is expressed by the position of a mass M in a phase or area  $d^2$  in a specific integral of time, t.

The phase d'épanouissement is the description of a probability area in which the quantum entity has a singular influence or impact.

A quantum entity can only describe half a dimension or *plage d'épanouissement* in one integral of time. Lets say it starts out as a singular mass or a heavy point in a probability area but little by little loses weight and gains energy. After becoming pure energy in the totality of the probability area it then deflates to a singular mass again. The point is when it is just a singular mass there must be something else to describe the *plage d'épanouissement* which is ofcourse its compliment!!!

As the equation describes energy in integrals of time, it is only a fundamental discription of half of a dimension or *plage d'épanouissement* as we perceive it. The figures or numbers which we introduce describe **our** view point; looking out across the valleys of our universe.

What is the equation describing? It is theoretically describing the smallest or largest quantum entity in the dimension or *plage d'épanouissement* of humain perception, but I question the limited way we humans "conceive" the universe. I am not sure if the way in which we conceive the universe is representative of the way it is. I suspect that as one adventures into the infinately small time becomes longer, and as one adventures into the infinately large, time speeds up. An indication of this is the way small animals and insects seem to live their lives in a shorter space of time. The smaller the animal the faster its heart beats. On the other hand if you look at the stars the further you look the faster they seem to retreat from you. This could be because you are looking with giants eyes and thus looking at things in a slower time scale. Giants would talk like a gramophone record turning ttttoooooooo ssslllloooowwwllllyyyy.

As I have said a *plage d'épanouissement* is by definition a dimension in which one finds at least two complimentary quantum entities which have two essential characteristics;

- 1: a singular nature, identity or position
- 2: an energy value, momentum or potential.

It can also have two manifestations; tabloid or linear. Tabloid like a picture with two faces or, perhaps the two sides of a sphere. Linear like an elongated sphere like a peice of music or a storey.

## The Moment of the Message

I got this idea from another esoteric book, the *Celestine Prophecies* by James Redfield, that in every encounter there is a secret or disguised message which passes.

Let us look at the interaction between two quantum entities. Richard Feynman invented his famous diagram demonstrating how when two fundamental quantum particles (two fermions) interact changing direction or form, they exchange a vertical particle (a boson) in the form of energy .

See diagram: the Four fundamental Forces.

It is important here to distinguish between secret in an esoteric sense and sublime in a scientific context, perceived but not conceived.

Let us look at what I am going to call the "moment of the message".

What I am going to do is to compare the Feynman diagram to an interaction between two humain beings. Take a man who rings up a painter and asks him to come and paint his house. The story starts with an estimate and finishes after the payement of the invoice when the job is complete. The storey is a complete dimension and thus a *plage d'épanouissement*.

The painter and client are like two quantum entities who come together in

complicity of vision. They both agree to the **value** of the work, how it should be executed and when.

When they are together they are complice. (See diagram Mode of Harmony) The diagram shows them as medalions with identical faces; one could say the same spin. However if you describe this relation in wave form the point of encounter (the first meeting) is when the crests of their resonance are both in troughs at the same instant. At this moment they come together in a mutual (complice) adventure or association.

As soon as they separate they defend their own point of view; the client inspects thoroughly the work to make sure he is getting what he pays for and the painter tries hard to make the job profitable and earn enough to get by. When they are apart they are enemies, opposites or in a complementary phase. As the job progresses the stress gets bigger and bigger and in the middle when the preparations are still underway and no result is in view, the client is getting impatient and the painter anxious; the stress is maximal and they are nearly enemies each totally defending his own castle.

It is at this moment in the storey when they become complete complementary entities (opposites) and the sublime message passes.

The storey then tails off; the last walls are sanded and a lick of paint goes on and everyone sighs with joy to see the first results. Little by little as the client and painter see their vision of the work materialise the tension drops progressively to the moment of separation the painter is paid and they leave each other on a friendly basis.

They come together in complicity, but little by little as their waves progress they will arrive at a point of total complementarity, then separate off into the complicity of a good job completed.

The similarity with the Feynman diagram is: two consciences (quantum entities) react together in complicity, exchange energy (do a job together) in complementarity, then leave in complicity (job satisfaction). The quantum entities can also be compared to the two windows at each end of a room; the air being the message or link.

See diagram: The Moment of Message

The complicity wave crest means at one point in time the quantum entities concerned might not be the same, size, intensity or energy level or frequency; but have the same note maybe an octave or several octaves apart.

You might say they interact together; which means, having joined the same club they vibrate together at different frequencies until during an instant they eventually vibrate in a complementary (opposite) wave phase. This is the moment of the message; at this moment they represent the whole dimension since one looks at the totality of the *plage d'épanouissement* from one side and the other from the other. This illustrates that when a quantum entity joins a club to play chess, or the violin or to do a painting job: he secretly joins a club to find out something about himself which happens in a subliminal moment during his *sejour* (visit or stay). This is the moment of complete and most intense complementarity. At this subliminal moment, spark, one has the vision of one's compliment.

At a quantum level there is an exchange of energy a virtual particle like a photon or any other boson.

At a human level there is an exchange of a subliminal vision. This vision helps one know oneself through an interaction with somebody in a complementary phase. The vision is like a sign post towards your part of heaven on Earth.

I believe that everything we do everywhere involves this fundamental process. To understand this you have to believe that each one of us is unique and has specific orientations, aptitudes, gifts, and capabilities which need to be expressed for the benefit of the individual and his society. In this case the subliminal inspirations from our ideas, thoughts and reflexes, are clearer and easier to identify. Unfortunately for the moment I have not met many people

who believe that we are totally unique.

## The Evolution of the First Quantum Entities

Imagine the first step in the evolution of the univers is the creation of the trinity, a timeless spaceless immobile quantum entity.

$$0=1-1$$

From the nothingness is created a quantum entity constructed of two complements: one, anti-one and their relation throughout an instant, dimension or context. This quantum entity has a **singular** expression, in a probability **energy space** during an **instant** or an event.

This quantum entity is all alone, he has no impact or relation (relativity) with anything else except that it is the equivalent to zero.

So to brake the solitude and give him some meaning we can create a complement. Rather like a man being born in a home with no-one else to talk to, so that he doesn't really know: who, where, or when he is; so we introduce a woman. (Don't for God's sake do that!)

$$-1+1=1-1$$

This is the advent of the plage d'épanouissement. The univers for the first time can be described and compared, coloured or sung, a painting with two faces or a song with two notes.

This couple live in a plage d'épanouissement where the front door is their frontier or horizon. (It remains a plage d'épanouissement as long as the door stays shut.)

However this original couple need to eat so they invite neighbours to help them, the men go out to work and the women stay at home and clean their houses. In this second developement the frontier of the plage d'épanouissement extends to the edge of the micro-community; the men go out to work in complicity and likewise the women stay at home and have a good chin wag in the afternoon. Now you will begin to understand better the diagram of Trinity Harmony. In their homes husband and wife are of complementary vision and outside are complice. See diagram Trinity Harmony. Outside the men are complice in work; they see the work from the same point of view but do it in complementary ways. Together they say we will cultivate the world and make it flourish; one goes out and digs the garden and the other paints the sheds; together their vision is complice, apart they are complementary.

This is a description of the evolution towards a complex quantum state. The non discriptive individuel; the individuel found, the couple confirmed in a community of quantum couples, a **consensus**.

The community of quantum individuels evolve in complice activites which confirm the individuel and his complement. The individuels will get something out of jobs well done, "the message". Jobs badly done will have to be repeated until the message is passed.

## Entropy

So we see that to be able to evolve we have to complete the jobs and activities that we undertake. Each job completed gives us a sublime vision of ourself and our complement by passing through the moment of the message, At the moment of the message one is king of half of all the dimension or activity that one undertakes and in this subliminal moment the queen is sitting opposite, queen of all the other half.

Little by little one will start to recognise her and approach her and eventually take her hand and lead her to the land of happy everafters. At this moment one evolves. You have

completed a dimension, quest, or *plage d'épanouissement*. This is similar to Hegel's idea; thesis, antithesis, and synthesis.

When you complete a job you know it by "heart". In education college I once heard that a child had to repeat something twenty times before he learnt it by heart. Recently a study on bees observed that a bee needs to repeat a voyage 18 times to a pollen distribution before it knows the way.

One might be tempted to think that gifted people complete the quest for their compliment with more ease than others. I would postulate that it is equally difficult for me as it is for anyone else to go on the quest for one's one true and only, however gifted, clever or accademic some people appear to be.

In every learning process when we learn something by heart it becomes automatic or reflexive and we evolve into a more complex organism. In other words we have another trick up our sleeve, another spin in the choreography of our life's dance.

The question is why does the universe evolve in a sense towards the more and more complex and not as Newton thought towards entropy a measure of the increasing disorder. The second law of thermodynamics says that all things will eventually disintegrate into their most simplest state. The sun will burn out its fuel and everything will just disintegrate into dust. This type of universe is known as a **closed system**, one which is destined to collapse.

An **open system** is one which expands, regenerates itself and increases order and becomes more and more complex.

We know now that stars can regenerate themselves. When a massive star or group of stars (often quasars and the center of galaxies) are pulled together under their own weight (gravity), they start to collapse. A collapsing star say five times that of the sun squashes the atoms into a plasma (soup) of quantum entities (hadrons); electrons and antineutrinos are squashed together to form heavy electrons called muons; and protons are squashed together to become neutrons, (the inverse reaction of beta decay when a neutron becomes a proton liberating an electron and an anti-neutrino). During this process neutrinos are liberated which shower away from the horizon towards the outer crust and into space. On their way perhaps only 5% react with the rest of the collapsing star, but this is enough to heat it up until it eventually explodes and throws its matter back into space. This matter becomes hot clouds which, little by little, condense into stars and matter again. Not only does this process recycle matter before it falls back into a black hole, but it also creates heavier atoms.

So you see the universe itself has its own natural process recycling and progressing towards a more complex state.

Recent photos of fossil radiation from the "start of the universe" suggest that the universe is "flat" and infinite as opposed to open or closed. The balloon telescope Boomerang taking photos of very cold photons shows it in a regular fashion without hyperbolic or elliptical distortion <<concave or convex>>.

The universe is probably closed or open depending upon our moods, open when everything seems to be going well and closed when there seems to be no more space left in which to hide or escape.

## Nothing Lost and Nothing Gained

Carlos Casteneda tells us, from Don Juan's teachings about a "gap" in the world, an opening which manifests between the day and the night and in certain circumstances as the sun goes over the horizon a sorcerer can walk through the gap into a new dimension!

Remember the difference between a *plage d'épanouissement* and a quantum entity; one is complete and the other has a polarity. I think it is this alterance which symbolises the

movement of all things, from a symmetric independent state to a polar asymmetric state.

This raises the question if we conceive these two entities transforming from one state to another then they must have a link with us, and this link could be described as the gap in their world.

In a similar sense I would describe a "black hole" as an expression of the gap at the frontiers of our scientific conceptual universe; the age difference between two lovers, the psychological gap; and the conception of truth, the philosophical gap.

At this point I would just like to say that I think one of the fundamental principles of our universe is that nothing is gained and nothing lost. If you can't add up correctly you can't just invent numbers to correct a false addition. There seems to be a trend at the moment of inventing multiple dimensions (to explain the string theories), universes upon universes and multiplying infinities. If two and two make five there is something wrong. In my book "Individulantis" I tried to find answers to the most fundamental questions in life, to create a universal dialogue or description that everybody in the world can use and understand without entering God or metaphysics. I believe we have a responsibility to do it this way and I hope this letter is my last chapter to that book.

Carl Popper not only illustrated the hypothetical nature of scientific knowledge as opposed to induced truths, he also revitalised the concept of propensities. He describes the present as the culmination of all the events of the past which focalise in this instant. These past events he calls propensities. Like the butterfly in the African jungle which flaps its wings and creates a hurricane in England. It is obviously not the only and unique cause of the hurricane but one of the key events or propensities in the construction of this event.

This romantic idea can be a little confusing. The German philosopher Hegel said more or less the same thing; there is always a source to all acts and events.

The problem is that we tend to favour certain events which are not necessarily those which have had the most impact in the construction of any one edifice of the present

For instance we have a tendency to think or describe certain people as more important, more intelligent, or more influential. This is often a false concept. Take a president; you might consider him to be more intelligent than you, well, Einstein gave his brain to be dissected and they didn't find any more neurones than anyone else. You might consider him to have more authority than you, but there have been millions of presidents, Kings and rulers; good and bad; who have had no authority. You might consider him to have had more influence than you, but where do his ideas come from. Ah, hah, they come from all around, the past the present, his advisers, his friends his television; his wall paper; everywhere! In fact hardly anything comes from him directly, since he is like a quantum entity who breathes in the universe, conceives, and then breathes it all out again, and all the breaths in his life have no more or less impact on the universe than one of yours or mine. Perhaps the words of his name are pronounced more than yours but this has little or no effect on you or him. The singular image you have of him at one singular moment will have nothing to do with him cleaning his teeth at this moment.

What is interesting however is that this president conceives like you and I. In other words he can pick and choose events from his memory. The president in Africa saw a beautiful butterfly in the jungle and was so enchanted that he immediately decided to stop all nuclear power stations so that when he heated the country in winter with thermic power stations this had an impact on the weather and created a hurricane in England. You can see here that all propensities, (associations and events) have a direct effect on the present but we are not always correct in our choice of those which have the most influence in the outcome described.

I suggest that in our universe nothing can be lost and nothing can be gained, and at every instant every particle of our universes has a capital and equal importance

in its construction of every instant during the turning of this film that we call our universe.

You might say that in our universe we have privileged associations and relations with certain forms which have evolved. This is true but before going further to describe these relations and forms we must remember that these are only the relation and events which we privilege and select and these are only a proportion of the whole. Sometimes small propensities or events can have catastrophic results. Chairman Mao said that each time a bird ate a grain of rice it would deprive a man of his supper so when the Chinese who tried to kill all the birds in China there was a terrible invasion of insects.

When one marvels at the complexity of the origins of all the **propensities** which have created our most complex universe one perceives that everything we do is vital and of total importance in the construction and of the future.

The question is; are there privileged forms and descriptions from the past which have modelled the present? Or, the very fact that we talk is proof that we believe there must be since talking is using the very tools of the past to describe the present.

So we have established that, in our universe which appeared like a string entity in the nothingness, nothing else can be introduced or taken away to help us explain that which at one time seems impossible and that everything inside our univers is useful and of capital importance even if it doesn't seem relevant, from one or another point of view. In other words to explain the complexities of light I cannot just say that God created it and I am right because I am more important than you or any one else.

You could argue that things do disappear from the universe like that which falls down the plughole of a black hole. For the moment we know very little about black holes, but you would be right in saying that perfect symmetry seems impossible since the univers would seem to remain static, however the very fine balance between matter and energy is very far away from those who invent new dimensions and change signs in mathematical equations for their convenience.

I do not like the idea of the black hole which swallows up the stars, passing space ships and other unfortunate bodies in the vicinity. That things disappear can sometimes be a mathematical facility but goes against the principle of a universal dialogue, whereby nothing is lost and nothing gained. The first principle must include all its participants by keeping within the frontiers of what we share as senses, physical dimensions and ethical values. What ever falls into a black hole must, in my opinion, must have a logical and coherent destiny.

You could argue that the bubbles which just appear come from nothing are creations for my convenience. If our universe is like a bubble in a lemonade bottle, it remains a universe until it is conceived by something outside itself and at this point the frontiers of the universe will extend to the limits of these shared conceptions.

Similarly if something disappears it must be impossible to conceive that it has disappeared, otherwise it would have never been there in the first place.

### Is the Universe the Largest Plage d'Épanouissement?

You might well ask what this universe is that I keep talking about. I would call it the largest expression of a plage d'épanouissement that we can conceive. In science it's frontiers are described in a naive way by the horizons of our perception; just as far as we can see or detect. Now with the progress one could say that these horizons are described by three fundamental constants: Planck's constant, the speed of light, and Newton's gravitation constant.

Let us put this into a philosophical context. A plage d'épanouissement is a defined area or sequence of events which have a defined horizon, each event or

composant is of total importance from one point of view, and that the events inside the plage d'épanouissement have defined relations, the singular nature by Plank, the space time by Eistein, and the impact by Newton.

Can anything else appart from the universe be a plage d'épanouissement, a song, a concerto, a picture on the wall? Is it a harmonnic unit? No, because it must describe the whole of the dimension. A picture only decribes what is in front of it and not what is behind, and a song sings a description from the point of view of the narrator and not the listener. If you paint a picture of half of your room from one side, then paint the other half form the other side and then stick the two pictures back to back; the two pictures together could be considdered as a plage d'épanouissement because together they describe the whole of the dimension of your room. If you sing a song about a poor gipsy rover and a well to do kindly merchant at the same time you could perhaps say that the combination of the two songs give a general picture of a social dimension. We as individuels prefer to look at one side of a picture at a time and listen to one song at a time so that as indivdiuels we can never perceive more than half of a dimension at one same time.

What about a plage d'épanouissement in psychological terms? Can a conscious be a plage d'épanouissement? No since it can never perceive or reflect the whole of a plage d'épanouissement. But yes in a never-never instant or a singular instant. Look at the diagram of the "The Unroling of Time"; in the bottom diagram you will see the unroling of time described as two superposing drops. In one instant you will observe a drop as fat as fat can be and in a complementary instant as thin and as thin can be. In this never never moment, when he is as fat as fat can be, he conceives everything; and when as thin as thin can be, he conceives nothing. As nothing is never lost or gained these are by definition virtuel moments.

One could perhaps say that an individuel is a plage d'épanouissement when he dreams or at a moment of inspiration; when he dreams he is totally dispersed and when he is inspired he is the center of the universe. (The center of gravity of the plage d'épanouissement which he reflects.)

From this you have probably guessed I considder that a room can be a plage d'épanpouissement, a picture back to back and two people singing at the same time. (We say in french "c'est la bordelle". <<translation: it's a mess>>) It is a very strange universe and brings us back to the scientific defintion, a defined area described by the three constants. If the room is isolated from the outside it can enevitably be descibed as a plage d'épanouissement. Since nothing in the universe can be isolated from the outside in principle a plage d'épanouissement will always have a leak and must therefore be asymeric. In an open universe (expanding) it will leak into bigger formats, in a closed universe (shrinking) it will leak into smaller formats, and in a flat universe; who knows? I postulate that it will resonate.

If we look at our universe we shall find an imensely fine balance in the values of the three constants so fine that the slightest variation would resemble a leak like a pin prick in the pacific ocean. (This idea I have found, in particular, reading about values for the small nuclear force and the predictable age of stars.)

A plage d'épanouissement is by definition a perfect univers but it cannot exist since it is always leaking into something bigger or smaller. To see it you have to go inside it, to hear it, it must lose the sound which penetrates your ears. You could almost say a plage d'épanouissement is the most perfect example, of unharmonious harmony, of asymeric symetry or noisy melody. It is at the point of perfection that it is totally imperfect and this is like I explained the link or virtuel moment of conception. The universe knows itself by heart and moves on to the next plage d'épanouissement (dimension) or energy level.

In the Trinity Harmony diagram there are confusing effects in this ilustration.

The first is the spin arrows; one would think that if you pull a cord between two

wheel the wheels would turn in the opposite sense. This illustrates that my diagram is simply a support or scaffolding in the construction of our image of a quantum entity. A quantum entity is not a disc spinning round but the manifestation of a fundamental attitude: nature, raptor or virtuel; in a given plage d'épanouissement or dimension.

Secondly if you want to go from complice harmony to complementary harmony you turn the coin over on its back and upside down but unfortunately you will find the spin arrow going the wrong way round. This worried me for several months and then suddenly I realised that we are dealing again with quantum entities and thus it is perfectly obvious that we have to turn the spin arrow round as well. To find the complimentary mode of a complice mode we have to change the appearance, polarity and spin!

One of the objects of my diagram is to illustrate that in certain modes of spin or polarity the quantum entities are either in liaison with the outside world or self contained units and as such are independant dimensions or plage d'épanouissements. When a liaison is established with the outside world it is as if they have a message to give through their polarity; the Feynman message.

Is our universe a plage d'épanouissement, is like asking is there an end or a begining, or does it leak into something else? For all sakes and purposes it probably oscilates between an open and closed state and is the finest example of harmony that one could ever construct, calculate, or conceive.

### The Meaning of the Message.

The only real way of insuring life's continuation is by reproducing life; exploding one's offspring into the future before falling back into the abime.

Perhaps when a quantum entity disappears into a black hole it appears elsewhere in a different time or place like the little string entities who appear in a univers the size of a thimble; and as I have already said they don't know how big or small they are; for compared to the nothingness of the void they can be any size!

In this case perhaps humans are the same, they either evolve or regress. They either explode their life's work into the consensus or regress into lost causes or mental duality and disorder.

Imagine the human spirit being the highest form of quantum entity performing the play of his life on the horizon of the worlds of conscience then falling back into death, and the unknown.

Is the purpose of life to simply evolve and change energy level; to contibute to the growth or complexity of the life and organisation in the universe? Lets have a look at this process of evolution.

Moving into a higher dimension or changing energy level can be compared to ajusting to a spin so much that one can incoporate a new spin. The initial spin becomes automatic like a reflexe. Think of a wheel turning round and round which then developes a wobble. The wheel turning round in one sense is the first spin and the wobble the second spin incorporated in the same movement. Another example; a drummer who beets a steady rythmn and then incorpoates another; those gifted musiciens who can beat out several rythmns at the same time. They have one rythmn so completely incorporated in their automatic reflexes (soul) that they are capable of playing it automatically whilest concentrating on the next!

This description illustrates how a singular quantum entity in a plage d'épanouissement starts out spinning on its own and little by little incorporates the whole universe in its repetoire.

Àre we are born as half men, incomplete like quantum entities?

If we follow our unique vocation and express our unique nature will we eventually find our other half?

The confirmation of our success could be expressed by the assurance and well being of the *plage d'épanouissement* in which we live; and at this moment a link or polarity is created with a next or higher dimension.

Our job would therefore be to search for our complement in searching for ourselves; and all the rest will follow.

## The Quantum Entity

### Polarity and Evolution

As we have already discussed we cannot have a description of a *plage d'épanouissement* without there being at least two quantum entities in its make up. If we want to describe them we need polarity. In the diagram Trinity Harmony we have seen how the two "amants" together have the same vision even though their perception is complementary. Apart in complementary polarity they still have the same vision, complice.

From a philosophical point of view the two amants together have the same vision of the world even though they perceive it from totally **complementary** view points. Their vision is their code of ethics, desires, wishes, and secret hopes and ways.

Together she never doubted at all.

Apart in opposing polarities they keep the same cap, they hold onto their positions but they are complice.

She doubted when he was not there.

At an atomique level one can perhaps describe "together" or "apart" as two quantum entities having either the same spin or an opposite spin. Two complementary quantum entities spinning in the same sense will have an unified polarity affecting the *exterieur*, whereas two complementary quantum entities spinning in opposite directions will cancel their polarity and thus have no *liaison* with the *exterieur*.

Complice quantum entities spinning in the same sense have complice polarity, but don't forget that they only represent half of the *plage d'épanouissement* (one point of view); but spinning in opposite sense they are complementary full strength. The client and painter together have the same vision of the finished work; a job well done, but on their own the painter defends his enterprise and the client defends his value for money. Together they are knights fighting a common foe; apart they are kings, defending their own castles.

## The Importance of the Idea of a Spin

This brings me to a very important question how can two quantum entities be apart if there is nothing in between them?

I have introduced the concept of spin which modern scientists often use to overcome this.

When two complementary quantum entities spin in opposite directions (in a complicit mode) they behave as independent universes with no polarity between them and thus as independent dimensions or *plage d'épanouissements*; and since they leave no trace no one knows if they exist or not and are therefore undetectable. They are in a sense virtual.

When two complementary quantum entities spin in the same sense they create a polarity in the *plage d'épanouissement* and thus become a greater or more complex quantum entity.

The introduction of "spin" helps us to look at fundamental entities in a new way.

- The face of the medalion is its nature or singular identity.
- Its spin, together or apart, independent or coexistent, represents its virtual quality.
- And its polarity, *elan* or *liaison* its raptor quality.

Fundamental descriptions of quantum entities can be confusing depending upon our view point; for instance, be it, psychology, philosophy or science. Each time we define a slice of cake with a fundamental expression, raptor, nature or virtual, the slices overlap from one definition to the next. What could be virtual in one sense could be fluid or massive in another. For example a song written on a score is a tabloid vision of something that is linear.

See diagram the Universal Nucleon. Each slice of cake covers a different "plage" on the "universal clock" which of course adds to the charm of our enigma. On the other hand it gives us a comprehensive foundation on which to build the universe from all points of view.

The idea of apart and together gives us the impression that there must be something in between. The catch which is difficult to visualise is that a *plage d'épanouissement* is made of three elements- two complementary and one virtual. What is confusing is that the virtual element itself is an essential part of the *plage d'épanouissement* like; an energy space or space time expression.

Another catch is the term complementary which leads us to believe that the two opposites or complements are halves of everything when in fact they are only two thirds of the *plage d'épanouissement*. Imagine two actors on a stage, the stage itself is representative of one third of the *plage d'épanouissement*.

Since a quantum entity has by definition a polarity we could, say that the doors are open to the public. When the doors are closed it becomes itself a *plage d'épanouissement* and by definition virtual since nobody knows what is being rehearsed inside.

What is even more confusing in the quantum world is that the stage can become a complement and a complement a stage. (the stage is a symbolic representation of the "character" of a theater which could be complementary to an actor's "style"). Quantum entities are descriptions, manifestations of fundamental entities; raptor can become nature, which becomes virtual and then becomes raptor again.

When two quantum entities combine with complementary polarities they need a third element on or in which to do it; a stage, which in this case is virtual; like an instant or energy space.

In the diagram First Quantum Entities we can see how two quantum entities combine together to form a greater or more complex quantum entity or *plage*

d'épanouissement. They go from the individuel symbolically refered to as God; to God and his wife in their home (stage); to the quantum community, God and wife with two friends and wives (six elements).

This I beleive to be the fundemental building structure of everything in the universe as you will see.

## The First Nucleon

Together they were one.

Nucleon, if you look in the dictionary you will find; "constituant of the nucleus of an atom; proton or neutron". Don't forget protons and neutrons are quantum entities and behave in exactly the same fashion as electrons in that you can never know more than half the information about their energy level or position. Science now beleives, however, that protons and neutrons are made up of three principal subordinate entites that we call quarks.

There are six varieties of quarks detected in the giant acceleraters but only two principally make up protons and neutrons; up quarks and down quarks. (The others are called top, bottom, strange and charm.) The up quarks have an electrical charge of  $+2/3$  and the down quarks have an electrical charge of  $-1/3$ .

A proton contains two up quarks with positive charges of two-thirds each and one down quark with a negative charge of one-third. This give the proton a positive charge of one.

The neutron has a two down quarks with a negative one-third charge and one up quark with a positive charge of two-thirds. This gives it a charge of zero.

Is a nucleon a plage d'épanouissement. Yes and no; on its own as a closed and perfectly harmonious unit, yes; and when it's constituants spin to create a polarity which links it to something outside itself, no; because at this moment it is a constituent itself to a larger and greater plage d'épanouissement.

A quantum entity made up of smaller quantum entities could be regarded as a complex quantum entity.

As inferred earlier the essential difference between a quantum entity and a plage d'épanouissement is the former has a polarity and the latter is independant within and without, all the doors are closed and this makes it undetectable and by definition virtual.

In other words nucleons can either be mini-universes, "plage d'épanouissements" by themselves; or quantum entities with a polarity or link with the outside, and thus a constituent of a greater or higher energy level, a complex quantum entity.

A proton for example resembles a complex quantum entity because it has a strong electromagnetic polarity with an electron outside whereas a neutron resembles a plage d'épanouissement without any apparent liaison with the exterior.

See diagram Four Nucleons

The neutral expression resembles the independant image of the neutron with all the polarities cancelling each other out.

The "positve charged" nucleon resembles a proton with its positive charge which couples with a "negative charge" nucleon such as an electron in a higher energy level to create a more complx quantum entity. Stable atoms; with comlete rings of electrons such as the inert gases, neon, argon and crypton; can be regarded as plage d'épanouissements, because they are complete and do not react with other elements around them.

It is difficult distinguished the difference between a "neutral complex quantum entity" and a "plage d'épanouissement". Let's say that the former refers to to a more precise singular element within a dimension, where-as the latter refers to a more universel element englobing from without.

### Polarity and the Four Fundamental Forces.

Normaly when we talk of polarity we are used to thinking of positive and negative because we think of the electricity as going backwards and forwards from positive to negative however in a universal sense a polarity can also be a liaison between different dimensions either towards an open expanding and higher dimension or a contracting shrinking closed smaller dimension. It also harmonises with the psychological conception of feelings and moods.

As I have already said two complementary quantum entities spinning in the same direction have to have a polarity, if you like, from one side of the plage to the other or from the open state to a closed state. This polarity is expressed as a charge.

In this case the charge is positive because the couple are a perfectly harmonous unit. If they were made of colours their colours they would be comlementary; red and blue in a yellow plage.

The charge would only have a value of two-thirds (the red and blue entities) because one-third of their manifestations (the yellow entity) is virtual, taken up in the construction of the plage d'épanouissement itself. In the diagram "the four nucleons" the little discs are made of three elements, raptor, nature and virtual; the virtual element cannot in principle contribute to the charge. This is how I expalain the "up two thirds quark" quark.

In a complicity relation you can see in the diagram Mode d'Harmony that the two quantum entities enter in complicity, resonate in different wave lengths until they go through a comlementary phase, then return to their original complice phase. In the three expressions there is only one complementary phase which gives reason for a polarity. Therefore the charge is one-third of the event.

Since this polarity/charge is created from entities who are false complements (not "one true and onlys") it is negative .

This I compare to the "down one third quark".

In the diagram the Four Nucleons I have found four types of manifestation whereby due to their spins they either cancel each other out or have a polarity/charge. I am describing the polarity/charge left over when the others cancel out:-

- 1/ The double charge:- three perfect couples
- 2/ The positive charge:- two perfect couples and one complice couple.
- 3/ The neutral expression:- one perfect couple and two complice couples.
- 4/ The negative charge:- three complice couples.

My diagram is a purely simplified symbollic description of fundemental phenomena. However it is evident that one can compare the positive charge to the make up of a proton; the negative charge to the make up of an electron and the netral charge to the make up of a neutron. I have cited only four but their are other posible combinaisons as in the construction of anti-particules like the positron and the anti-proton, but it starts to get complicated. (Antimatter will be my last subject.)

If you want to construct a perfectly harmonious unit where all the

spins/polarities/charges cancel out you will see in the diagram The Complexe Quantum Entity how the positive and negeative charged nucleon share polarities and the two neutral nucleons complete the chromatic assemebly of the six fundemental colours: red, orange, yellow, green, bleu, and violet. (This assembly of colours corralatres with the six colour code for the gluons, the strong nuclear force, which hold the quarks together; red /annti-red, blue /anti-bleu, and green/anti-green.<<they mistake green for yellow>> Glouns are virtual particules, bosons, force carriers like photons and gravitons. They stop the nucleus of an atom from exploding due to the electromagnetic repulsion ) The assembly of six colour couples permets us to have an equilibrium of six singular characteristics.

To have a perfect universal equilibrium you will need six complete complex quantum entities because as you can see from the diagram, although there are equal numbers colour the neutral expression in this case is predominately bleu! (If you spin all the colours in the diagram through a colour filter; the end product will be bleu.) So to complete the chromatic balance you will need the five other complete comlex quantum entities.

As I advanne in this letter I have found that one the magical qualities of the quantum world is that although I have been able to define certain modes and points of repare, they are constantly changing; space time can sometimes be a singular, uniut and at others an energy liaison. It just seems that at a certain moment in time a concept can be described in a certain manier; and then five minutes later everything seems to have turned round and changed place. However, I insist, this does not mean that the exercise is impossible and that nothing is important. Things are important and constant. A protons is so stable that you would have to wait longer than three times the time since the theoretical big bang for it to decay so lets try and describe what **is** here.

Trying to discribe the quantum world is like trying to capture a beautiful butterfly. The only real way of capturing a beautiful butterfly is by creating a wonderful garden in which it can épanouisse (flourish). To create my garden, my explanation, I have to set out all the ideas in rows and plots, paragraphs chapters and phrases. I have to look at them carefully and continually, take out the weeds, rearrange the contexts and think how to expalin them simply. I have to continally look up my references and revise where I read this or that. In my garden I have to listen to the ideas by talking to others and getting reflections and then moving plants from place to palce to see if they are happier here or there.

Then when I have done all this and am losing all hope a butterfly appears in the form of an inspiration and I start a new chapter.

## The Stable Ring of Eight.

As we have seen the polarity, spin, and manifestation of the nucleon gives it the posibility to combine with others to form more complex quantum entities.

If we take two nucleons in "open polarity" (positive charge); two in a "closed polarity" (negative charge) and two form the "virtual state" neutral charge); we have the foundation of a complete complex quantum entity. (See diagram the Complete Complex Quantum Entity).

Lets build ourselves a complex quantum entity in three dimensions. To do this we start with three nucleons which we will symbolise as three pyramids. For the summit of each pyramid we can take three titles, for instance, time, energy and space. The base of the pyramid can be the plage (field) of probability, so that in the case of time we have the singular **instant** in the eternity of **all time**; energy as the liaison or polarity, **closed** and **open**; and space a **singular** point "**épanoui**" in the vastness of all space. See diagram The Three Nucleons. You will notice from the diagram that I have replaced the titles at the summits with **Raptor**, **Nature** and **Virtual**; but I have

left the original complimentary characteristics to describe the probability areas at their base.

To have a complete view of the base or probability area we have to look from two points of view from on top and from underneath.

Now if we combine two pyramids together by sticking their square bases to each other, what have we got? a diamond! Not just any old diamond, a magic diamond, with three pyramid bases hidden in its contours, and each square contour base with a perfect complementary colour allegiance, (all time is green and the instant is red) .

See diagram The Diamond

In a perfect universe there must be at least six complete complexe quantum entities one at each point of a universal diamond . (re-read last paragraph of Polarity and the four Fundamental Forces) This makes a total of 36 nucleons counting all the points. Two points will be in a virtual state thus we can deduct 12 quantum entities; a further third of the remaining 24 quantum entities are in their virtuel quantum expresion which leaves us with 16 complimentary quantum entities expressed or witnessed by their polarity: in other words 8 pairs which gives us the stable ring of eight electrons in an energy level in an atom, or an octave in a musical linear expression. (Don't forget in the linear the two songs sung at the same time!)

I would like to baptise this diamond the atom; that which makes us solid, the first and indevisable plage d'épanouissement.

### The Breakdown of a Complex Quantum Entity

It begs the question if ever there is a breakdown in the foundations of a complex quantum entity. Say the very first king and queen divorce, the whole structure will crumble like taking a basement card out of a playing card castle. Is this the process of nuclear decay, when the basement quantum entities start to spin out of harmony?

Imagine the complete complexe quantum entity instead of being made up of stable nucleons is made up of unstable nucleons as is the case for unstable neutrons and protons. (Vulgarly speaking neutrons decay into protons and electrons and protons decay into positrons, electrons.)

This breakdown doesn't concern us greatly except for the nuclear power and making Xrays; however in the recycling of stars and the generation of heat (thermonuclear reaction in the sun) its is a capital element in the construction of our universe.

From a scientific point of view most of what we touch is stable, harmless and constant however from a psychological point of view if the human spirit is a complex quantum entity then antimatter is rife in human relations.

### The Photon Gun and Screen Plage,

When two quantum entities combine together to make a complex quantum entity they create a polarity; as if they reproduce; in science a photon and in the fairy tale the king and queen have a baby. The link between two quantum entities is the photon when they join together they shine and when they "separate" (change spins) they absorbe a photon.

Couples form and then break up, when they form there is excitement and light

and when they break up there is sorrow and absorb light. The couples form when their spins align; they think they are meant for each other and thus play the game but if they are not meant for each other their spins must eventually enter into discord and become inharmonious to such a point that they will have to split like two magnets pushing against same poles.

When eventually the couples start to find their perfect complements the dimension or *plage d'épanouissement* will "evolve" toward a *plage d'épanouissement* or a more complex quantum entity.

In any one *plage d'épanouissement* when the king and queen are in complementary mode and shine a photon prince is born which "leaves" the couple and unites with a princess born of another couple in another *plage d'épanouissement* of an opposing polarity. We have a tendency to believe that the photon leaves one kingdom and voyages across a space to another kingdom. In other words the prince of the photon gun zooms off to marry the princess on the screen.

Although the idea is a good scaffolding it is erroneous. What is important to understand is that the two kingdoms are *plage d'épanouissements* which touch or embrace each other; and that each kingdom is by definition a probability area which means that, following modern thought (inspired by Feynman), the photon could have passed by any number of probable paths from the light source to the screen, reinforcing the vision of light as a fire ball travelling from one place to another.

I tend to think of light as a unification of polarities which opens a liaison or tunnel between two *plage d'épanouissements*, unifying them to become two quantum entities of a greater *plage d'épanouissement*. All the quantum entities of the two probability areas focalises on the liaison of the two complementary quantum entities in harmony.

The photon gun a kingdom, a *plage d'épanouissement* with a king and queen, create a liaison with the kingdom on the screen; the prince of one marries the princess of the other thus the photon gun and the screen become one complete new and greater kingdom, *plage d'épanouissement*.

The photon gun and the screen are initially defined as independent kingdoms or *plage d'épanouissements* but in the event of the marriage of their offspring they become quantum entities of the greater kingdom of the prince and princess.

During the event of their liaison the photon gun and the screen become two complementary quantum entities of the two kingdoms united. The two kingdoms united create a new kingdom or *plage d'épanouissement*. During an instant all the quantum entities of one polarise with the other, and this gives the impression of "luminosity". Luminosity in the coronation of the prince and princess, "models" for the new united kingdom between the light source and the screen.

You might ask if children born out of love are "not carriers" of a message for the children of a new dimension of humans. All children are consumed in love even if the partners are completely out of harmony. At one particular instant all the body of each believes that in front of them is the "one true and only" and that is why we are all here. The message is spiritual in the sense that it is a sign post towards our compliment. At one particular sublime instant each partner shows a little photo of what to expect.

YEEEEUUUCCKKK!!!

Prince and Princess Photon

In the beginning a photon gun "gives off" a photon which "illuminates" a screen.

The prince photon leaves his family to join his princess and their light reigns in the plage d'épanouissement inbetween their parents kingdoms; the photon gun and the screen.

What happens when you put a double slit pannel in between the photon gun and the screen.

### PHOTO N GUN -- DOUBLE SLIT PANNEL -- SCREEN

Lets say that you divide the photon gun kingdom and the screen kingdom into two kingdoms. The photon gun/double slit pannel becomes the first kingdom and the double slit pannel/screen becomes the second: two independant plage d'épanouissements.

I spent a lot of time on this idea and after nearly completing the whole of this chapter (two and a half months) I suddenly realised that the interference pattern did not belong to the second kingdom, the double slit pannel/screen plage d'épanouissement but the whole of the plage of the two kingdoms together, from the photon gun to the screen, but with the double slit pannel in the middle.

One might say the interference pattern on the screen is the direct memory of the prince and princess before split in two by the double slit pannel.

This seems to confirms that when we look at the world from two complementary points of view the "memory and anticipation" of past and future events (greater or smaller) are related through a common vision? It is the objective of this study to create a common vision so that the horizons of our hope for the future will go as far as possible.

Who is the prince who comes into the bar? Is he the virtual prince of the greater plage d'épanouissement of the photon gun/screen, and the double slit pannel his virtual princess in the form of a barman?

One might be tempted to imagine that the time scale changes. In the greater kingdom inbetween the photon gun and the screen there is one prince and one princess created every instant. In this same instant when the greater kingdom is separated by the double slit pannel the smaller kingdom of the photon gun double slit pannel exists (the quantum bar). One might imagine the time scale of one is double the other; double the apparent distance which the photon has to travel.

Lets be careful with the quantum world. As we have seen in the quantum world definitions such as time, space and matter can change form, essence and amplitude. This does not mean that time disappears or is created from nothing or magic! It means that, we as observers and participants change, we look from different points of view, favorise different groups of descriptions, qualities, values, amplitudes and intensities, in different distinct instants and events.

When the prince from the photon gun/double slit pannel kingdom arrives at the doors of the pub (the double slits). Who receives him? Who opens the door?- 'the barman". Who is the bar man? This is the interesting bit. If the barman is representative of the greater kingdom, of the whole the photon gun/screen plage d'épanouissement (or the plage of the two sides of the double slits), is he the giant or the false lover of the princess locked away in the ivory tower of her dreams? In this case the ivory tower would be the interference patern on the screen resulting from the complementary information from the meeting between the prince and barman at the double slit pannel. When the prince goes into the bar, conceives his complement through the barman, his princess goes into a profound dream, virtuel state which affects all the customers along the bar who amplify the dream into a sea of happy fairy

tales which constitute the the greater plage d'épanouissement of the photon gun/screen plage; some dreaming of a beautiful princess and the others of a handsome young prince. (Don't forget the duality in the interference pattern created by groups of locals and regulars. Read chapters Quantum Inn and onwards.)

As you remember, the customers behind the bar are dependant upon the barman's reactions. They have to wait until he indicates what to do. Again this is just scaffolding to a greater and clearer explanation.

The prince of the photon gun/double slit pannel arrives at the double slit pannel and perceives a virtual princess. He is immediatly attracted by the opposite sex but has to wait before he is given the vision of his complement.

I should perhaps indicate that when the prince is in his singular pure ethical sublime state, the perfection of himself raptor, his princess will be in a dual, sublime state state of virtuelness, in a day dream, asleep or unconscious. In the plage d'epanouissement of the bar; the princess represents the virtuel elment dreaming of her prince in her happy kingdom, the prince the raptor element and the barman the nature element.

Now according to my vision of the code of life says the prince has to go in do a job correctly and then the quantum entity in front of him (electron/barman) will indicate his princess. This means that when he arrives at the two slits he has to chose the right slit to go through; and if he makes the right choice then he will be lead down to his princess.

Now his complement behind the bar has a complementary act to do; the same type of enigma but inversed. His princess is locked in a tower and is only let out when the prince is not there. When she detects the arrival of the prince she has to play a game as well. She must not fret and worry about the eventual sucess of her prince, she must remain quiet in her "virtuel state" and let the prince get on with his "raptor job" in total confidence; all precipitation on her behalf will be echoed in the complementary forestallment of her prince. Since they are complementary when one behaves correctly the other follows suit.

So the double doors could be in fact the barman, the giant, who is no more or no less than the greater quantum entity "the greater nature of the princess" of a "greater" or more" complex plage d'épanouissement of both sides of the double slits; and the prince in his greater singular sublime state the greater raptor prince of the liaison between the photon gun and the double slit pannel.

In other words the polarity of the photon gun which contacts the screen through the double slits has not been defined. It could be a handsome young prince or a beautiful young princess. When the double slits are introduced the ambiguity manifests on both sides: in the photon gun as well as on the screen. The men's door and woman's door are only a scaffolding to explain the duality which presents itself at the entrance of the quantum pub.

This scaffolding starts to explain the impossibility of a direct liaison between inferieur quantum entities and those of a greater plage d'épanouissement. A corporal cannot go and see an admiral before going first to see the sergant. The reaction of the smaller quantum entities (prince and princesses) is a ressonance of the greater and virtual plage d'épanouissement.

Don't forget that the general stir, the unified illumination, occurs when the photon gun and the screen are part of the same plage d'épanouissement. It is the resonance of the unification of the prince and princess, the photon gun representing the "raptor quantum" entity and the screen representing the "nature quantum entity".

The plage inbetween the photon gun and the screen is a virtuel element in which all the occupants shine in resonance with their prince and princess united; the "plage épanouie" (the beach blooming).

The photon going into a quantum pub is the same process as any human interaction be it simply going to work or buying a newspaper; in the perfection of a gest, the singularity of the consensus concerned indicates the strongest complement to that gest; the message which leads one on to one's own personel Grail.

## Twins

When one atom gives out two photons at the same time I imagine this as twins who have the same characteristics except in science they are obliged to have complimentary polarities (but not complimentary in character). In other words they are sister and brother and not amants. Have you ever noticed when driving along a road lined with trees planted at a same time, they all seem to resemble each other. This is how I imagine photons born from the same atom and at the same time resemble each other. Those quantum entities born in the same instant in the same singular place can only have complementary view points. In principle their compliments will resemble their twin but will be essentially different.

## Who is the Photon Gun, the Singularity Sucker and What is the Screen.

I imagine prince photon as one point on the hexagon diamond, his princess on the opposite, and the square in the middle the plage d'épanouissement. The diamond hexagon is created from two pyramids stuck together sharing the same square base. The prince and princess looking at each base from his or her point of view, their polarity being their cut across the diamond but at any one moment the one giving and the other receiving.

Here we see that prince photon in the photon gun establishes a polarity with the opposing polarity of the nucleon on the screen. The illumination of the screen is the resonance of a liaison between two quantum entities, one across the space from the photon gun to the screen, and the other, from the screen down to the infinitely small quantum entity "in" the materiel of the screen. The screen being the base of the triangle of the two quantum entities.

As you know a photon is liberated when an electron changes energy level. Normally we understand by this that when a complex quantum entity in the photon gun loses an energy level it becomes less complex and the complex quantum entity on the screen becomes more complex and the photon appears to go from the photon gun to the screen. There are two observations that we can make here.

1/ The king and queen lose energy to the screen who gains energy and lights up. In other words the polarity has a sense or direction by going from a higher energy level to a lower energy level which in consequence is illuminated.

2/ This concept questions our vision of an electron. Are electrons little invisible "bee" entities spinning around an atom? I have the impression that electrons are more like "polarity doors" which exist between the quantum entities inside a nucleon. The size of the atom and "doors" governed by the expression of the plage d'épanouissement created by the quantum entites envolved.

The king and queen on the screen are king and queen of the kingdom therein (the plage d'épanouissement). When they spin together they create an electro-magnetic polarity which manifests as an electron. They become one and give birth to a prince or princess in the form of an **anti-photon**. They do an electromagnetic dance and bobs your uncle they create a new and more **complex quantum entity with the**

**photon gun** but after that they go back to doing the garden (one of their virtual states). The new and more complex quantum entity created between the screen and the photon gun only lasts the time or instant or event of the voyage or effect of the photon between the two.

I imagine atoms created from nucleons dancing continually maintaining polaric links inside the *plage d'épanouissement* of their frontiers. When one nucleon enters into a virtual non polaric state another takes over the role.

You can thus imagine the whole univers created on dances becoming successively more and more complex each time creating newer and higher kingdoms, or *plage d'épanouissements*. The king and queen unite their kingdoms to make a greater stable kingdom. Their sons goes forth and marry princesses who join the kingdoms of their parents with others to become even greater kingdoms.

### My One, True and Only Nucleon

There is one question which has been worrying me for some time which is:- is the quantum entity in the photon gun the one and only compliment of the nucleon to which the photon goes to on the screen?

When you light a match in your room. The light from the match will illuminate the wall. Somehow you will have created a rift in the void of your room. The potential energy of your gesture and the subsequent chemical reaction in the match head will have changed directions or energy levels of the electrons there within creating anti-photons polarities sucking illumination from the wall. Is the wall nucleon the complement of the match head nucleon? Imagine light coming from a quasar some fifteen billion light years away; the amount of energy needed to make a *plage d'épanouissement* to create a *liaison* between the two nucleons.

There is obviously some form of complementary which shines forth, however I am not sure if they are the ones or not. Could they be the prince and the gaint or like two people who marry but who are not really the ideal match.

Don't forget that the electromagnetic force is perhaps the forth fundamental force or effect and therefore a higher and more evolved developement away from the rudimentary trinity.

It is thought that inside an atom there is a perpetual exchange of photons between energy levels indicating stable well established kingdoms of unified quantum couples. I would imagine that a match struck in a defined area like a room or garden or green house can only react in that defined area and thus must be a constant figurant of this *plage d'épanouissement*. It would therefore seem to me to be unjust to imagine that his compliment be outside the possibility of his access.

Therefore I would say yes.

It is interesting to imagine the dimension, energy level or *plage d'épanouissement*, of a photon coming from a quasar fifteen billion light years away. I mentioned cold photons earlier on when I talked about photographing the "beginning of the univers". The further away they travel the closer to absolute zero you have to go to photograph them. It's quite a separation for two lovers and I imagine that the prince must be quite cold after travelling all that distance!

### It Was All There In the First Place.

The last time I read this through I was starting to get very depressed. I comforted myself that there were nevertheless one or two original ideas but I had the impression that I was

waffling, looking at my own belly button, and getting nowhere. Then suddenly I had the most mind blowing idea and became very excited and tense.  
Here it is so put on your brain mufflers and away we go!

When you look at the diagram "The Unrolling of Time" you will see a little man dancing along the film of life. In each diapositive he advances a little more to make a new pose. Each pose is like the start of a new plage d'épanouissement.

The problem is how does all the matter of one, slide or move to the next?

When you go to the kitchen to put the kettle on how did all your matter get their. Where is the connection between your matter sitting comfortably in a chair reading this and the next "you" in the kitchen?

Imagine two slides or plage d'épanouissements; how does one move all the materiel of its composants to the next, and where is the junction?

Perhaps the greatest British philosopher, David Hume, made this point:-

"Where we beleive two kinds of event to be causally related, we beleive them to be constantly conjoined at all times on the basis of our remembering them to have been constantly conjoined in our experience.

The inference from the limited conjunction that we have observed to the universal conjunction that our causal belief embodies assumes that the unobserved resembles the observed or, more vaguely, that nature is uniform. But this, like the general principle, is neither self-evident nor provable". ("Hume" by Antony Quinton)

The problem is when does one photo change to the next, how and by which passage? I imagined everything of one moment or event, squeezing through the point or a singularity and bursting out into the next plage. Imagine when you go to make a cup of tea being squashed through the key hole your lounge plage d'épanouissement and bursting out to flourish in your kitchen plage d'épanouissement. I imagined in some way one diapositive pivoting through a singularity like the drop of water braking away into the free falling drop.

No, this is not so, I believe Hume when he says that there is no proof of a relation between one event and its successor.

You could say that the complicity of the consensus gives us apriory proof.

This does not help! "Things" cannot move from one instant to the next; **so they must have been there all along**. Everyone knows that there is a continuity of events but no one knows how they are linked. To top it all the king and queen (the singularities) of each event are hidden in a kind of universal law of discretion.

I used to think that I would answer the question "why" and that would be the end of my quest and I could stop writing and do something different. I used to meditate on the question "why" with extreme efforts like going to the toilet when you don't really want to. Then one day I felt as though I heard sirens replying in a far away echo "because". I then suddenly understood that everything that is, has always been here, and always will.

Why? Because it is .

I shall never answer the question "why" but I might be able to describe "because", or what "is" with more amplitude.

All the peices necessary to make the diapositive of an event are there before and after it happened. Imagine the unvivers like a three D cinema screen made of quantum entities which have three fundemantal potentiel expressions. In this universe there are four winds which blow across these quantum entities rustling up differnt spins or manifestations.

To start with there are simply clouds of colours waving across the sleepy dreams of Mr Universe. Then as His eyes begin to agitate in his sleep the clouds

become more precise and one can trace pencil lines around them to make forms and faces. He then realises that He is alone so he condenses the vapeurs into liquids and solids, then matter, and life.

His dreams would float over the quantum entities exciting them into forms. These forms would appear to move from "A" to "B" but nothing moved, only the winds of his dreams. One wind would be grave and essential, another sublime, one would be reasonable and economical and the other frivolous and eccentric.

Nothing moved but that which was there vibrated, turned and danced in such a way that one had the impression that things moved.

His dreams would resemble a hologram, the universal vaporous medium of infinite quantum entities illuminated and animated by the four winds, the four forces.

The winds would resemble symmetric and asymmetric humours, closed depressing thoughts and open enthusiastic moods.

Everything in the universe is everywhere. When it seems to move, it doesn't change place, it simply rematerialises somewhere else in a continuum. When you leave the room to go and make a cup of tea, in fact, you leave yourself behind! Your materialisation in the lounge disintegrates and reforms in the kitchen. (Don't forget the sugar.)

I remember someone explaining to me the mechanism of the internal combustion engine.

The piston descends. The petrol valve opens. The piston goes up and compresses the petrol air mix. The spark plug flashes. There is an explosion which pushes the piston down rapidly. The exhaust valve opens and the used gases are pushed out. There are four pistons and the motor turns at one thousand revolutions per minute.

Can you imagine all those procedures turning round and round at that speed?

Well it is the same problem for us to conceive the idea that we do not move at all but simply are an extremely complex form of spin vibration floating across the universe.

You could argue that the winds resemble a push me pull you resonance and that for this there is movement. I would agree but then I would answer that it isn't **relative** and therefore without **consequence**. Relative in the sense that nothing changes place. Nevertheless there is undiscutably movement, even if only a vibration, and not the relative movement of objects physically changing places. Although the concept is not totally infallible it enables us to open a door to a new, vast, and more elaborate description of the "because".

One can imagine the universes like an enormous sheet that God shakes in four corners. Inside this universe are other sheets which can be compared to different stages of development and the relations between the sheets are like the four fundamental winds or the dreams of God, the four fundamental forces.

Everything is here and manifests when excited in a different way. Everything has three fundamental characteristics or expressions which are subject to four possible influences. So when you come down to visit me in Bordeaux, don't forget to bring yourself. (And my lovely cousin.)

Now you see it is quite possible that when God shakes the universe sheet the vibration takes time to reach a constant amplitude, however once the resonance is constant all communication along the sheet is instantaneous.

Light is one of the four building bricks of the sheet of this universe that we are made of. We cannot go faster than light because we are made of light!

## Gravity from Scientific Induction

I did not want to touch gravity but in the light of the precedent chapters it seems that I cannot go on to complete my description without placing the foundation stone of the edifice on which possibly everything is built.

Very early in my writings of Individulantis I had the idea that there was a parallel relation between energy in a scientific context and ethics in a philosophical and psychological context. I reduced ethics down to four fundamental characteristics; the **gravity** of our acts, their unique **nature** and **value**; and polarised in the **light** of perfection or the sublime act (the high density reflex).

### Newton

Lets revise what gravity is. Newton discovered gravity when an apple fell on his head, meditating under a tree. This concept was one of two bodies in space which are attracted to each other and when they collide energy is produced in the form of heat relative to their masses and their speed of impact. He calculated the gravitational constant thus enabling us to calcul the energy released when the two bodies strike each other. One apple at three meters on a tree when released equals two plasters.

### Einstien

Everybody was very happy with this way of looking at things until humans invented the lift and God invented Einstien. Einstien had bought a pair of scales for his wife. When he took the lift he felt a jolt as the lift accelerated towards the heavens (and his wife who lived on the 26th floor). This gave him an idea. He went back down to the ground floor, got out the scales and started his voyage again. When the lift started towards the heavens the scales read 75 kilos instead of 65 kilos (his normal wiegh) and when the lift stopped the scales went back down to 65 kilos.

Now this gave Einstien an idea. He took the scales and gave them to his wife who was so happy she unfortunatly promised to do anything for him in exchange. (Something you must never promise.) Einstien immediatly seized the occasion and asked his wife to cut the cables of the lift once he was inside and well positioned on the scales. (Now don't worry it was a lift with a safety gadget; when the friction of the lift sailing down the shaft heated up the sides the lift expanded making it come saftley to a halt.) Einstien's wife obediently cut the cables with their garden balcony secateurs and Einstien went hurtling down the shaft. As soon as his voyage started something very funny happened, the scales enregistered no wieght at all. Eistien and the lift were hurtling towards the center of the Earth at the same speed so he was wieghtless like an astranought in space. Well, this didn't last for very long. Soon the sides began to heat up and he found himself being pulled back down onto the scales which when the lift stopped read his normal 65 kilos.

This experience didn't do very much except to change radically the way we think about gravity. Gravity is no longer exclusively seen as a pulling force but as a pushing force. The 65 kilos of Einstein are no longer a measure of his weight but that of the Earth accelerating Einstein into space.

NB (The stories of Newton and Einstein have been modified to colour my explanation)

Gravity apart from being perceived as an attraction can also be conceived as an acceleration.

This is all very well, but what about the people who live in Australia. If the Earth pushes all of my 72 kilos towards space it must logically leave all the Australians behind.

We had got used to the idea of gravity as a pulling force even though we couldn't explain it. Now it is described as a pushing force, an acceleration, it makes things doubly difficult.

(Perhaps the Earth is flat after all, like an enormous lift platform pushing everybody out into space!)

Although Einstein's way of looking at gravity was complimentary to Newton's, both are ways of looking at gravity from scientific induction, cause and effect; and although neither explained why kangaroos don't bounce into orbit, modern science was nevertheless able to enlarge its description of the universe which surrounds us so lets revise some of those resulting discoveries and theories.

## Black Holes

A black hole is the symbol of the ultimate gravity. Relativity has helped us to imagine what happens to those celestial objects which become too heavy for our mathematical calculations. It helps us to explain the functioning of black holes, in particular, those situated at the center of galaxies. When so much matter is squashed together under the pull of gravity, stars, planets, asteroids, gases, its mass becomes so immense that its gravitational **acceleration** becomes equal to that of the speed of light and everything beyond this limit disappears. When you stand on the edge of a black hole, on the **horizon**, you weigh the speed of light. If a photon were to take the lift from the inside, the lift would be travelling at the speed of light. The acceleration of the lift would be equal that of the photon **accelerating** at the same speed. The lift would accelerate to 300000 km/second and then the photon would jump up again and the lift would accelerate again. Once the lift of the black hole accelerates at this speed the poor photons inside won't be able to go any faster and escape from the black hole! If you fall inside a black hole you cannot telephone outside because the acceleration of gravity will be going faster than the radio waves trying to get out; as if you were constantly approaching the core at the speed of light without moving.

Subrahmanyan Chandrasekhar, an Indian scientist and Davidovitch Landau a Russian scientist, calculated that a body can support more than about one and a half sun masses before it collapses into a potential black hole. Chandrasekhar studied White Dwarfs, very small and dense cold stars who have run out of fuel; and Landau studied neutron stars, stars which have been squashed together into an immensely dense conglomerate of neutrons.

Black holes are thought to be the result of either monstrously big stars running out of fuel and collapsing upon themselves, or concentrations of stars who have collided together to form quasars (giant stars) which then collapse under their own weight, or the collision of clusters of stars at the centers of galaxies.

As earlier I insinuated that my weight could be compared to speed; an

acceleration of 72 kilos; one could possibly describe the speed of light as a weight of one and a half sun masses.

The Chandrasekhar limit is the point of no return, objects larger than one and a half sun masses automatically have black holes forming inside their core. It is the point whereby the acceleration of light equals that of the acceleration of gravity.

Whilst looking at black holes I asked myself if perhaps everything can have a black hole, that every independent coherent body has a potential event horizon with a singularity hidden inside itself, everything! In other words although you are smaller than a giant star you have got somewhere inside a black hole even though it is **virtual**.

This can become very abstract, one could define more or less "anything" as an "independent coherent body" like a landscape. (One can argue this, treating a landscape as a conception but we are leaving the subject.) I understand by, coherent body, a mass like a stone, an animal, a planet, or galaxy; independent meaning it exerts an independent gravity except whilst resting upon a gravitational host like me standing on the Earth.

A body has to be at least 500 metres in diameter before it exerts any substantial gravitational force. (You must not jump up and down on asteroids because you might never come down.) What sticks an asteroid together is the electromagnetic force. That which is there is just one enormous cake. If you break off a crumb you will have to squash it back on again like squashing a piece of chewing gum onto the underside of your desk.

All coherent independent bodies smaller than 500km in diameter stick together due to the glue force called the electromagnetic force. ("Above this diameter or  $10^{46}$  particles astral bodies are modelled into a spherical form by gravity, so that under this diameter they often look like a potato." ref: Univers et la Terre by Kleczek et Jakes, p33). Stones, crystals, skin, and bones all stick together by sharing electrons in chemical exchanges. (I haven't forgotten the strong nuclear force which holds the quarks of neutrons and protons together. We'll deal with this another day.)

It is misleading to think that asteroids smaller than 500kms in diameter don't have any gravity, they do, but it is much weaker so that the smallest agitation will create big disturbances on the surface. Dust will be thrown up with the slightest ease, from the impact and collisions of other asteroids and solar electromagnetic winds.

What does one need to have a black hole? As I have already indicated a black hole is a singularity constructed from an enormous mass exerting a gravitational acceleration faster than the speed of light thus imprisoning everything which is attracted to it. The event horizon is like a pencil line which traces a boundary around the black hole. It is the point or moment when the acceleration of gravity within reaches the speed of light.

The term "event" horizon helps us when we break down time into strings of different events or integrals. The moment or event before jumping in, the moment during the crossing, and the moment after (gulp).

I personally imagine a space time inside the black hole but since we cannot go inside to take a look we can only imagine.

I suggest that every coherent independent body, be it a stone, a cake, a dog, or an atom, has a singularity and an event horizon, be it virtual or real. I immediately think of its unique character or soul, but I don't want to go esoteric. Let's just say that anything that is bound together by the electromagnetic force has somewhere close to its center of gravity a virtual black hole; in other words a singularity surrounded by a virtual event horizon. I am tempted to say any quantum entity in its play d'épanouissement state (virtual state of no charge, polarity).

Although we cannot see black holes, their event horizons or their singularities we more or less have the proof of their existence from:-  
 by predicting the fate of collapsing stars from red giants and quasars to white dwarfs and neutron stars,  
 the emission of X-rays from their surface due to the interchange of matter and antimatter,  
 and the gravitational attraction of invisible objects which affect the orbits of surrounding stars.

Unfortunately you need to weigh one and a half sun masses before you can have a real event horizon, so where is your event horizon of the Earth's or a pebble's?

### The Search for the Light Speed Horizon

The quest for the limit of the gravitational influence of a body; the limits of its gravitational field or plane. It is a characteristic which I have invented which I hope will help us to build a clear picture of the relation between light, gravity and a singularity.

I would like you follow a little thought experiment with me. Imagine that you climb into a do it yourself spaceship from "Di and Y"s and you take off from earth. To take off you need a thrusting power to push you away from the attraction of the Earth's gravity.

The power your spaceship needs to lift off is just a little more than its weight.

At first you go very slowly, but as you start to leave the gravitational pull of the Earth you accelerate, since the force you use is constant but the gravitational force of the Earth diminishes.

At about 20,000 meters the air starts thinning out and soon you meet your first satellites. You are still using the same force to lift you out of the Earth's atmosphere but the pull of the Earth's gravity is considerably less.

To your surprise you look down at your instruments and discover that you are going twice as fast as you expected. How can this be? You always used the same driving force, the same thrust of gas burning and pushing out of the rockets behind.

Since you planned enough fuel to go to the moon and back you say to yourself; "lets keep accelerating until I get to the moon and see what happens."

With the constant thrust of your motors and the diminishing pull of the Earth's gravity you go faster and faster. Suddenly a tiny object flashes past, a geostationary satellite for "telegannets;" "that was a close one", you think to yourself. "How fast am I going?" Then the moon comes into view and grows worrying rate.

You are approaching the moon at one third of the speed of light. What can you do?

Being a quick thinker you turn the "Di and Y's" space craft around in the opposite sense and use the thrust of your motors to slow you down whilst going into a long elliptical orbit around the moon which swings you round like a merry go round and back on your way to Earth. (The moral of this story is; always read the instruction of things you buy in "Di and Y's")

What I want to illustrate is; if you maintain the same quantity of thrusting energy as that to take off, little, by little you will accelerate because the gravitational pull will diminish. If it were possible to accelerate indefinitely you would eventually arrive at the speed of light, since the acceleration will be a geometrical progression.

I used to think that when you throw a stone into the sea the stone was constantly accelerating. This is false; the moment it leaves your hand it stops accelerating and progressively slows down. You could say that the acceleration that you gave it with

your arm diminishes the moment it leaves the tips of your fingers, a progressive deceleration.

**When an accelerating force is maintained you should always eventually pass the threshold of the speed of light relative to the body you have left.**

Whatever the force be it a Titan space lifter or a Di and Y's craft it is the diminishing gravitational pull of the Earth which is important.

If you take the Titan space lifter, you will need a force the equivalent to its weight and with this superior force you might think it is the first to reach the speed of light. This is not so. Theoretically, whatever the initial force, as long as it is equal and proportionately a fraction more than, the initial weight of each craft; both will reach the speed of light at the same time. Unfortunately at the moment we are not capable of doing this. Nevertheless what is important is; whatever the size or weight of your space ship the threshold of the speed of light will be at the same time and at the same, constant place.

The diminishing gravitational pull of the Earth results in a geometrical progression which concerns all bodies accelerating towards the "light speed horizon", the threshold which constitutes the horizon of the gravitational field (plane) of influence of the Earth.

You will arrive at the horizon of the Earth's gravitational plane when your vessel is travelling at the speed of light and this will always be impossible whilst the Earth is pulling you back with its gravity.

You can have a vessel which pushes very strongly or very weakly, the effect is the same, whatever the force pushing you you will not reach the speed of light until you leave the gravitational plane of the Earth. You are pushing against a constant force, the constant acceleration of the Earth and this acceleration has a limit in distance as well as a force or weight.

This is quite difficult to understand, in fact it is so difficult I don't understand it myself. But I am sure that there is some truth in it. In fact there is a little catch.

According to the theory of relativity the closer you get to the speed of light the heavier you become so that if you take a Titan space lifter you will arrive faster but get heavier more quickly whereas I predicted that although the Titan space lifter took more time and energy to lift off once out in space, with its extra power, it would catch up in the end. Relativity also predicts that time will slow down; the faster you try to catch the horizon the longer time seems to go so that eventually just before you cross the threshold time slows down to an eternity in one second.

Although I love these predictions I don't believe that we gain weight or that time slows down whilst approaching the speed of light. Nevertheless I do believe that a light speed horizon exists for every coherent independent body that is constant and relative to its mass.

The constant place beyond the Earth's atmosphere at the threshold of its light speed horizon is very important because it marks the integral space time of any stationary object on its surface to its absolute acceleration. This constant marks the limits of the gravitational plane from its singularity inside its core (center of gravity) to its light speed horizon.

You might argue that whatever distance you go from the Earth there will always be a minuscule gravitational pull. This I believe is not true because eventually the gravitational pull of the Earth will be drowned by the gravitational "plane" of the sun. The sun in turn will be drowned by the gravitational "plane" of the galaxy, and our galaxy by the gravitational plane of the universe, whatever that may be!

All coherent and independent bodies are subject to gravity. You and I are subject to gravity because we stick to the earth. The earth is our gravitational host. Everything around the Earth including the Moon belongs to the gravity of the Earth. Galaxies are in the gravitational plane of the universe but we have not discovered its limits. If you go down towards the infinitely small all particles are subject to gravity (we are not sure about neutrinos) so we, as humans, only know three gravitational planes: **terrestrial, stellar and galactic**. Does this mean that we only know three light speed horizons?

### The Linear and Tabloid Character of Singular Gravitational Objects

Is the singularity of an object by definition its center of gravity.

Today the theory of relativity predicts that the speed of light is a fixed constant. Light travel is always perceived at the same speed from which ever direction you look and however fast you are travelling.

Personally, I would predict that the speed of light is constant in different gravitational planes. This does not mean that one cannot modify the conditions inside a plane by shining beams of light into swirling liquid gasses at temperatures approaching absolute zero, but if the speed of light is constant in a gravitational plane then light and gravity are related.

I defined a gravitational plane as a plane (field) between its center of gravity or singularity and its light speed horizon where its gravity no longer prevents the object, leaving it, to obtain the speed of light.

Have you and I got a light speed horizon? If we have it must be very close. Imagine floating in space on a tiny asteroid 10 km across, you wouldn't have to jump very hard to project yourself into space forever. Nevertheless you would have to go quite a long way from the asteroid before you leave the last infinitely small pull to stop an object attaining the speed of light. This probably does not become significant before the object loses part of its singular nature in becoming spherical with a diameter superior to 500 kms. The light speed horizon of me, you or a pebble is so small that it must be virtual.

The horizon of my dreams is a sunny retreat with my compliment in a country cottage with no financial difficulties and happy relations with all I love.

The horizon of my reality is a hard strenuous job which is killing me, financial hardship and very very difficult relations with all I love!

Lets say that the light speed horizon of all independent objects larger than one and a half sun masses is real but their singularity becomes virtual, what we popularly know as a black hole. I am ofcourse predicting here that any star bigger than one and a half sun masses, like a quasar, has a black hole in its center and by definition its singularity is therefore virtual. The fact that we can see the star can be misleading since we think that we are looking at a totality of this massive object. We are in fact looking at its superficiality but not its singularity. Like looking at a man without a soul.

There is all the same an enormous difference in between a pebble and a quasar star. I do feel the intermediary state of a celestial body bigger than 500 kms in diameter merits a place in our discussion, since its gravity distorts its physical identity and makes it round. Since its shape becomes spherical it loses a little of its singular nature, its unique form. Its form is no longer governed by the electromagnetic force but that of gravity.

It would therefore seem that there are three types major types of manifestation of gravitational objects in the universe:

- astral bodies bigger than one and a half sun masses such as quasar stars and black holes:
- bodies bigger than 500kms in diameter, such as asteroids and small stars:
- and those objects which have no light speed horizon at all but a strong singular identity, such as all coherent and independant bodies smaller than 500kms in diameter such as small asteroids, you and me, down to dust particles.

Three definitions:-

- 1/ Virtual singularities, real event horizons, and far reaching light speed horizons
- 2/ Non descript singularities, virtual event horizons, and real light speed horizons.
- 3/ Real singularites, virtual event horizons, and virtual light speed horizons.

I use black hole as the symbol of the gravitonal horizon or what is beyond the event horizon. Equally I use strong singularity as a description of a strong electromagnetic identity.

As we have seen my personal black hole or event horizon is virtual but what about my singularity. Where is my singularity. I am a gravitational object since I fall down but I have no event horizon or light speed horizon, all that is left is my electromagnetic mass which constitutes my singular nature. Is this electromagnetic lump the real definition of my singularity? Our black hole is hiding in the infinately small, and our light speed horizon is infinately close to our center of gravity. Is my center of gravity my singularity or is it my outer shell?

Now as you know a body has to be at least 500km in diameter before it exerces any significant gravity so I shall have to put on weight before I can calculate my horizon but there is something that we have in common and that is a center of gravity. Usually it is close to my tummy which is quite a good idea since this the most stable place to keep my food after a good meal.

A center of gravity is not obliged to be in the center of an object, it can be outside the object like when I bend down to touch my toes, or excentric like the moon pulling the center of gravity of the Earth away from its core. (Or when the moon is in the form of a "C" << joke >>)

Is the singularity of an object its center of gravity? Yes and no, (can't be wrong) the center of gravity traces the purest passage of an object through space, where-as its outer shell and form designs its character at any given instant.

Now we all know what a potato is, but what is the purest passage. To explain the purest passage lets look at the Earth as it revloves around the Sun every year. Whilst the Earth goes around the sun it is pulled from left to right and back and forth principlly by the moon but also other celestial objects. The trajectery or the singular passage of the center of gravity of the Earth will trace an interesting picture and much different from that of a compas drawing a perfect circle around a point like the sun. The trajectory of the center of gravity of the Earth gives it a singular character which is also the key to everything that happens in and around the Earth in this one revolution.

One can imagine the Earth tracing a melody along a score of musique as it vibrates to and fro on it's voyage around the sun.

You could argue that it is an ever ending changing storey; that each song traced will be completely different. This is not quite true. Although all the planets change places and stars move very slowly there are constant repetitions which give recognisable characters to the songs as the revolutions evolve since it is songs of stories punctiated by constant and regular repetitions.

This is the same for the sun revolving in the spiral arm of our galaxy at 230kms/sec; 300 million years for one revolution. (Only 5000 revolutions since the big

bang!)

Although the singularity of the earth is in perpetual evolution it has regular predictable cycles which give it an identifiable character as if the music constantly changed but was always played by the same instruments. Like Europeans who speak different languages but to a Chinese man they all look alike.

This illustrates a linear expression of a singularity in one "gravitational dimension" or *plage d'épanouissement*; the song of its center of gravity.

This was less difficult than I expected.

It seems obvious that an object's real singularity must be in the vicinity of its center of gravity, and definitely between its event horizon and its light speed horizon. You might suppose that the crust, surface, or face of an independent electromagnetic body is representative of its singularity.

I believe that there is probably some truth in this, however visual human interpretations can be subjective with an infinity of perspectives. Don't forget that in my definition of a *tabloid plage d'épanouissement* one can only ever view half of any *plage* in one particular instant (or event); from the back or the front, from under or on top, or from one side or another.

Whether or not the outer shell of an object is the purest representation of its singularity is questionable. You can easily imagine that it carries the scars and the wares and tears of its many encounters and battles throughout its history. My aging body will tell you many tales but does it tell you who I was all through my life? An animal like me has a character which has been modified by training and experience; asteroids change form and weight with impacts with other entities. A *tabloid* representation of an entity's singularity can be found on the surface of any independent electromagnetic body at one instant, but it would be hard to prove that it contains the history of all its life since its creation. Don't forget that to look at the totality of any one object one has to view it from both sides at the same time. This can either be done by the vision of a consensus looking from two sides at once or memorising one side and then going round to look at the other. In principle the complete vision or conception of a *plage d'épanouissement* from an individual point of view is impossible but in practice many objects can be visualised from both sides before they change to any significant extent. Whether the singularity of an independent electromagnetic body is manifest on its surface or not does not really matter so long as we can identify the real nature of the stories which went into its making. If a consensus can identify the real nature of the stories of the creation of any one object in its environment then these stories will have a real a real consequence and meaning for this consensus. I would therefore postulate that all independent electromagnetic bodies have a "real" singularity as long as the coherent consensus shares a common and unanimous description.

This paves the way to the description of a virtual singularity and in particular to the singularity hiding inside a black hole beyond the frontiers of an event horizon. Quasar stars, neutron stars and white dwarfs, who contain more than one and a half sun masses, can theoretically contain black holes in their hearts but for the moment I haven't read any more evidence of this. It was also thought that all galaxies contained black holes at their centers but recently two galaxies have been found without! Needless to say, there are countless galaxies in the universe and the further we look the more we find!

A black hole has no singular *tabloid* nature because it is invisible, so how can we explain its linear or musical singular nature? There are giant stars and black holes which orbit around the central core of galaxies, and galaxies themselves move about the universe. The passage of any one object across the skies is an obvious sign of its existence and hence its identity.

If their movement were linear and totally predictable, as opposed to erratic or unidentifiable, these regular paths would betray a linear or musical singularity and thus they would lose their quality of being virtual. You might argue that a star which orbits

around a black hole betrays its existence and renders it real. This is true but it renders its gravitational nature as being true. This is enough of course to trace their real nature as they push and pull across the universe.

I would postulate that if a much bigger astral body passes close by to a black hole its singularity could be pulled out from behind its event horizon and obliged to show itself like a star being born. Is this the origin of the universe?

Earlier we asked the question how can a visual astral object have a virtual singularity? Galaxies are visual but nearly all have immense black holes at their centers. It is also one of the enigmas of science, why don't the enormous black holes at the centers of galaxies gobble up all the stars in its spiral arms? It could be that whilst the galaxies wander about the universe their inter-gravitational attractions pull their center of gravities away from the central black hole and create smaller black holes speckled around its spiral arms. Thus the center of gravity of a galaxy could be the sum of all the black holes from its center to the tips of its spiral arms!

This correlates well with our behaviouristic vision of the passage of light being the sum of all its histories.

Finally if the singularity of a living being is its soul I beg the question, can the singularity of an individual be identified on the outside of its shell and from its behaviour? I can go further and ask questions about its motivations, its birth and its eventual death but here I am obliged to let your imagination catapult you into the confines of your destiny in this marvellous and infinitely immense universe.

## The Cause of Gravity

The conscience of a living being could be the expression of the evolution of a living horizon in the evolution of the universe from; gases, to stars, to planets, to living beings. The singular corpus is tiny but the conscience enormous. Behind the horizon of each living conscience is the history of all the events which went into its creation in other words **an event horizon**.

Two years ago (the summer before my mum died), I tried to formulate a theory of gravity. I turned to psychology and philosophy to try and find an answer. I described it as two different tides of influence washing out to and fro, over each other. The singular individual replies to the collective influence of the consensus which washes over the individual who in his turn cries out into the mists on the shores of eternity washing his influence back down into the sea of the consensus again. The two tides pushing against each other create a continual and perpetual acceleration.

If a gravitational influence is a beach with tides washing back and forth, the Earth's gravitational tide breaking over me will push me up the beach. My tide will then in turn will push back against the sea of the Earth's tide. These tides have a frequency and rhythm. In the gravitational play of the Earth's gravity I am always pushing against the Earth whilst she is dispersing her tide in the sands of time.

Why doesn't the sun rip me off the surface of the Earth and pull me to her burning fires. Why doesn't the moon leave her orbit around the Earth and do the same. The easy answer is that both the Moon and I are orbiting the sun with the Earth at the same speed so that all our centrifugal forces will all be the same.

However I am not sure that this is sufficient in the light of what we have said. I would like to propose a supplement to the centrifugal force by saying that it is possible that the gravitational tide of the sun is pushing the Earth at the same time as I and

therefore does not attract me. As my influence washes out against the Earth's receding tide the sun's tide does the same and therefore the forces will cancel each other out.

The gravitational force of the sun in the same way is not affected by exterior galaxies but only affects the Earth and our galaxy the Milky Way.

I would go further and say that the frequency is not a simple cyclopedic rhythm but probably something that resembles a musical octave.

The larger the singularity of an object the less it becomes precise and the more it has to share with others to create a total gravitational effect. All the stars of the galaxy together create the collective gravity of our spiral galaxy. It is not one specific star or black hole in the center which creates all the gravity of the galaxy. Firstly if the giant black hole in the center of our galaxy were responsible for all the gravity it would surely swallow everything up! Secondly it is not big enough, its diameter is only about 6% of the distance from the Earth to the sun, 8,000,000km; whereas the Milky Way is nearly 1,000,000 light years across.

### The Galactic Quantum Entity

The greater the conscience the more it has to share with the consensus.

Looking at gravity in this way makes me think of our galaxy as a quantum entity. It has three fundamental expressions:

Three definitions:-

1/ Virtual singularities, real event horizons, and far reaching light speed horizons

#### **VIRTUEL**

2/ Non descript singularities, virtual event horizons, and real light speed horizons.

#### **RAPTOR**

3/ Real singularities, virtual event horizons, and virtual light speed horizons.

#### **NATURE**

A most interesting question which arises from this observation is what happens in the universe. It seems that the qualities of gravity applied to our spiral galaxy belong to those of a quantum entity.

If galaxies are no more no less than enormous quantum entities what is the universe. Before it was generally thought that relativity predicted that the gravity of all the galaxies in the universe accumulated to create the singularity of an enormous black hole. Now we see that the accumulation of gravity in the galaxy seems to have a different manifestation; that of the characteristics of an enormous independent quantum entity itself. It seems that again I would seriously question certain visions or predictions drawn from the theory of relativity, in particular that of the big bang and the vision of the speed of light being an irrevocable constant.

If galaxies are manifestations of enormous quantum entities then our picture of the universe is quite different. What with the prediction of the Boomerang telescope of the universe being flat it could be possible that the galaxy is nothing less than the component of some immense atom in an unimaginably enormous dimension.

### The Gravity of the Individual in the Consensus

Earlier I explained why I believe we are not hoisted off the earth into the sun. I

would like now to develop this idea a little more deeply.

I would like to revise how a gravitational host exerts a perpetual acceleration on its smaller guest.

I treated gravity from a philosophical point of view. I used the consensus as symbol of a gravitational host and the individual a symbol of the guest.

I imagined the influence of our acts as a tide or pushing force, pushing against the sea of the consensus.

The influence or weight that each one of our acts has upon the consensus would be measured by the tide of the consensus pushing back over them. I throw my ideas to the sea who in turn throws them back onto my sands in reply.

What I do has an immediate influence on those around me but lesser and lesser the further away I go. The limits of my influence can be regarded as the frontiers of the plage d'épanouissement of my influence; the catchment area (from my event horizon to my light speed horizon).

Everything I do in this area has an impact (like an acceleration) on everything else, the closer to me the quicker and more important the impact, the further away the lesser and longer the impact. All is a question of time and proximity. An immediate impact carries more **weight** than a distant impact. The further you go from a gravitational host the lesser the gravitational acceleration. The further you go up the beach the less powerful the tide.

The consensus also has an impact on me it reflects what I do as though it were replying. I go to work, get paid and buy things. My work influences modifies looks after and supports the consensus and the consensus looks after me and my life support systems. I go to work to discover who I am in the quest for my compliment. The consensus replies with different amplitudes of tides which wash answers back over me in different ways and forms.

This symbiosis has a rhythm. As an individual I go to work regularly, get paid regularly and spend my wages regularly. I build up a personal importance in the consensus by expressing who I am, and what I am capable of. The consensus takes into consideration the results of my efforts, evaluates them and remunerates them with different forms of **recognition** and **compensation** in the form of wages, status or responsibility.

I in turn spend my wages giving back signs and directions to those who approach me as though I were the barman in the quantum pub, the representative of the tide. I also therefore have a responsibility to spend my money intelligently and give proper indications in return.

In other words whilst the consensus is sleeping I sing and dance on the sands and then when the consensus wakes I go to sleep and digest the good food recited by my efforts. What is happening is that from my gluey electromagnetic parcel the influence of my acts accelerate from my virtual event horizon (singularity) towards the extremities of the consensus (light speed horizon) which is sleeping in its singularity. My song wakes everybody up and there is an echo which resonates from within the singularity of the consensus and washes back over me towards the horizons of its gravitational plage. As it washes over me I am snuggled up in my singularity.

Each tide can be either myself blooming (épanouissant) in the consensus or the consensus, blooming, flowing back over all the little singularities like me. The thrust or flow of the tide washes out over the beach and dissipates into the sands as though disappearing into the mists of the horizons of its influence.

When I go out to work I push against the singularity of the sleeping gravitational host, the consensus. Then on my way back the host awakens and pushes back on me. In this way there is a continual pushing movement between my singularity and that of the consensus. It is a question feedback action or reflexive action; a continual acceleration.

## The Alternance of Rythmn

Imagine that you are in alternance with the gravitational tides of those of the earth your gravitational host. When you bloom (épanouisse) the Earth has receded into its singularity and when the Earth blooms (épanouisse) you too are snuggled up into your own singularity. When one dances the other sleeps. What happens outside the gravitational host of the Earth?

The Earth itself is the guest of the sun. The sun is the host of the gravitational plage the solar system. When the Earth is singular the sun blooms (épanouisse), but don't forget that when the Earth sleeps I épanouisse, so that I cannot be attracted or accelerated by the sun because we bloom (épanouissons) at the same time.

From a small guest to large host to greater guest to greater emmense host there is alternance of tides. From you to the Earth, to the sun to the galaxie there is alternance of tides so that no one will get ripped off their planet.

Now it is easier to imagine in the static universe that I discribed earlier of tiny quantum entities whereby things don't move but rematerialise in different palces. The tides which flow out from the singularities of independant coherent bodies, such as yours, mine, a pebbles, a plannets or a stars, are like the winds or humeurs which blow over the quantum entities making them rematerialise in different manifestations. Their hollogram start at their center of gravity, their singularity and permiate outwards towards their light speed horizon, the horizon of their influence.

## The Nature of the Concept of Acceleration.

First of all I would just like to remind you that acceleration means: perpetual augmentation in speed, and gravity by definition means a perpetual acceleration. The gravity of the earth pushes you into the air and you take off virtually, but before you can take off, it pushes you again, then again and again. When you fall of a cliff your body accelerates towards the sea; it goes faster and faster and faster. Gravity is a continuel and perpetuel acceleration and only the air and the sea will slow you down.

Now if we look a little closer at the nature of the behaviour of gravity and break it up into integrals when you fall off the cliff every instant you change speed. If you measure your speed every five seconds your initial speed will be zero, then 20mph, then 35mph then 55mph, then 80mph, etc. (This example is not a precise calculation.)

Every instant, (in the example every five seconds), you go into a new speed dimension. You could argue that the universe is a flowing unit where there are no boundries between one dimension or plage of speed and another. Do integrals exist? Is there a gravitational instant or is it a continuel flow? Does the tide stop comming in for a tiny instant whilst you photograph it? Imagine the eternal tide pushing me into space. Do the waves actually stop at one particular instant or another to change their intensity?

One could say at one time; there is a strong effect as the roller comes crashing down onto the beach and there is a weak effect as it runs loosely up in a fine film on the sand as it tries to wet the inexpectant socks of strollers before it desipates into the sands. Yes I would postulate that gravity is a wave action of some sort which can eventually be measured if we can get down to the fundemental instant.

## Raptor/Virtual/Nature

From a physical point of view the movement of matter to and fro the extremities

of each plage host is impossible, however in a static universe where everything is always in the same place one can now see how communication along rythmic lines explain why the hologram of me is in perpetuel acceleration towards the hologram of my gravitational host.

There is a very interesting calculation to make if every independant coherent body has its own black hole. To have a real black hole I would have to wiegh one and a half sun masses.

At this weight I would look deep down into my body and there in the middle just behind my navel I would find an omminous black vortex gobbling up my moods and feelings as they meandered in its direction. When I am sad it would snap at the sunshine make the moon look ugly and black and when I am happy it would gobble up all my dark clouds and black thoughts, and let the light warm my inner fires of hopes and enthusiasm.

### The Black Hole in my Navel

The question I ask myself is; where is the virtual black hole in me?

We have described gravity as the acceleration of one object on another and or the specified attraction between two masses at specified distances.

Let us look inside ourselves at our virtual black hole, where is it? Think of yourself as a hologram of quantum entities spinning round to give the appearance of your "you-ness", not just your appearance, your solid mass, like a pebble.

Imagine that your body's quantum entities are spinning at an infinite speed so that in any period of time all the quantum entities of your body are virtual. At one precise instant in time you are completely invisible and all the quantum entities of the of your whole, solid, electromagnetic mass are in their virtual expression.

Although I enjoy the idea that the universe made of an infinite volume of static entities spinning in one of three manifestations, I find it quite difficult to imagine the time scale and space dimension in which they exist.

Do you remember I suggested that subatomic (subnucleonic) composants of the univfers are all dependant upon the manifestation of their three primordial expressions; raptor, nature and virtual.

I suggested that in the world of the infinitely small, of the ultimate reduction, things do not move like you or I going to the kitchen but change face as the your form seems to move to the kitchen.

All this happens on a time scale which is inconceivable. Beyond the atomic (nucleonic) horizon in the interieur of the atom things don't just disappear or reappear in time or space but the whole universe in which we live depends upon the manifestation of the shining "faces" of these ultimate quantum entities.

You can imagine the time scale of this world if the virtual black hole inside myself be some relation between 72 kilos and one and a half sun masses (the estimated approximate weight of the sun being 2,20<sub>30</sub>kg)!

If the first manifestation of a real black hole starts at the size of the smallest atom, an atom of hydrogen, my virtual balck hole will be proportionately this much lighter:-

$$\frac{72}{1,5 \times 2,20_{30}} = 2,18_{-29}$$

see diagram of calculations, "The size of my soul".

You can now see that to create the hologram of yourself in terms of infinite quantum entities spinning in any of the three expressions they have to spin very quickly. Imagine then, this hologram dismantling and recreating you in your kitchen

when you want to go through to make a cup of tea.

The question now develops what happens when, at one moment you, all the ultimate quantum entities which make the "hologram" of your virtual being are invaded by the wash of the gravitational plage of the Earth .

A black hole at one precise moment is not things falling into it but simply all the quantum entities inside expressing a continual virtual manifestation when we "look" at it. Our black hole inside us is virtual whereas that of our galaxy is real in the sense that it is so big that it has a permanent and identifiable structure.

At one point our whole body reduces all its quantum entities to their virtual expression. Your body disappears and in its place is a black hole.

At one instant all the quantum entities which have combined together to make your form undo themselves and spin in a gravitational virtual expression. This is an infinitely rapid event. In one instant it would seem that your whole body vaporises into its virtual state, only to reappear in the next gravitational event (instant) as though spiralling out from one singular point like a pin hole. Since this event is faster than any event inside our "conceptual universe" it is by definition virtual.

The process of gravity is the wash of the gravitational host building its hologram. A wave which spirals out from the singularity of the host and washes across the tiny, ultimate quantum entities to construct what we know as everything around us in our gravitational dimension (the Earth). The Earth at one instant does not exist and then suddenly from its center of gravity, the Earth waves blows out across all the quantum entities in the Earth's gravitational dimension.

In this instant the manifestation of the quantum entities of the gravitational host appear to drive out towards the limits of its light speed horizon. The tide washes over your body hiding away in its singular virtual event.

In the next instant, when the tide of the gravitational host reaches its light speed horizon it dissipates into its virtual state leaving you the guest (or your body) to burst out and bloom (épanouire) on the new and empty beach (plage).

I would like to note here that this description illustrates the encounter between a gravitational dimension and a plage d'épanouissement; the meeting point of science and philosophy.

If you follow the logic of this theory there must be a syncopated rhythm between gravitational hosts and guests. An immense gravitational wave from an unknown host washes across the Universe which, when it meets our galaxy the Milky Way, plunges into her singularity, her black hole. This energy then regenerates a smaller wave which washes out over its gravitational guests, all its stars (aprox. a billion) including our Sun. This wave in turn plunges into the singularity of the Sun which then washes a new wave out over its guests, its planets and the Earth. The Earth then regenerates her own wave for her own gravitational guests, us and everything else which sticks on to her!

This means that when a gravitational wave running through the universe hits the center of gravity of the the Milky Way it is too big to touch that of the Sun, or the Earth, or you and I, even though in principle is in harmony with the Sun and you and I.

The wave of the host crashes down onto the shore of the beach of guests. Those guests close to the full force are heavily excited and reply with a complementary force. Those further away reply with less force and so it goes until it reaches the light speed horizon where the influence is minimal. What ever the proximity of the wave the reply is always syncopated to the same rhythm so as to create the constant acceleration from the two partners the guest and the host.

Apart from the central blackhole it is also commonly thought that the galaxy

contains many black holes. This begs the question. Can any one, coherent, gravitational body like mine contain several singularities? From my point of view I can easily imagine my soul or character, at some time, whole and at other times, divided.

If there are several singular points like a galaxy with several black holes; I imagine that these points would represent different functions and characters of the body concerned.

Earlier we talked about the center of gravity which traces a passage in space like a song on a musical score, illustrating the linear singular gravitational characteristic throughout a passage of time. We then went on to talk about a tabloid plage the center of gravity which can be anywhere on its face, his character, according to the impacts he has had with the universe: like craters on the moon.

If you take an inanimate object such as a stone then, obviously, its singularity will always be situated around its center of gravity, however the singularity of a living being is something a little different. Scientifically speaking in principle the singularity of its mass cannot differ from that of its center of gravity. Philosophically speaking the singular expression of an individual at any one point in time might be at anyone point, in his head if he is a poet or in his feet if he is a footballer. The singularity of the storey of his life might be at the end of his life when he finally accomplishes his life's ambition. Some start early others late, today in the year 2001 prime ministers are often over 50 years old whereas in the last century several were much younger like William Piit at 21.

One can then discuss the singularity of a piece of art, a statue or a painting. Where is the hidden signature, its soul, that funny face hidden in the mountain side or in the clouds. Where is the secret message in a poem? Is it the center of gravity? Could this idea be the start of an explanation why black holes are found all over the galaxy as well as at its center.

I have asked myself if an atom itself is a black hole. In some way I think it is. The limit of the probability area of which the electron occupies being the horizon of the atom.

When an atom becomes very heavy the nucleus has a tendency to decay giving out electroweak radiation in the form of beta radiation. Pulsars or neutron stars weighing between 1,5 and 5 sun masses are made almost exclusively of neutrons and give out vast quantities of electromagnetic radio waves like torch beams which, whilst they rotate, create a light house effect; hence their name pulsars.

It is evident that when black holes "eat up" celestial matter it should in principle go somewhere or be converted into something like energy. I ask the question is gravity itself the energy released from black holes? Is the singularity of our galaxy the vortex from which gravitational waves wash out pulling us backwards and forwards? Are black holes the corners of the sheet shaken by God which activate all the little quantum entities throughout and across the universe?

I have already insinuated that although my theorem satisfies one aspect of "causality" there are still anomalies to be answered such as the origin of the waves which role over the universe and their own causality.

If gravitational integrals measure time, as their waves reach out further their influence will thin out and time will "seem" longer. Our human conceptual universe could be fixed between the frontiers of, the atom and the event horizon. To look out over these horizons we will always be looking from one direction, from the inside out, and therefore will never see more than half the solution to all the questions that we ask. We will be looking from the unique point of view of our one true and only universal quantum entity.

What we have done is advance in our description to the edges of our conceptual frontiers and having gone so far this is enough for me.

Whether or not our quantum entities dissipate onto a virtual state or spiral out from pin

hole virtual singularities is probably governed by our own personal anthropic conception. This boils down to the way we are trained to conceive the universe. I do believe, however, in the three fundamental properties, raptor, nature and virtual, and that their order makes up everything that we perceive.

My imagery is poetic scaffolding to help explain something that we shall never see. My conclusions are based on intellectual reductionism and nothing else. I have watched all my life the way things react in our own perceptual environment and assume bigger and smaller things do the same.

My imagination wanders off and I see the universe as a sea of waves who when find beaches such as galaxies, stars and planets roll over in excitement and throw themselves out over the sands.

## Conclusion

### The Balance Between Good and Bad.

The victim is often responsible for his misfortune, as is the persecuted for his persecution, and the abused for his abuse.

The quest for the value of things is deeply implanted in the forest of man's intimate conscience which lies between the great lands of ambition and principles. If the frontiers between these two lands are open, their peoples will walk hand in hand, but if either one or other tries to take over then a rift will appear between them. The larger the gap between the over-evaluation and the under-evaluation the further ethical values will drift from the consensus therein, and in doing so, the light of moral judgement sombers whilst the heads of a hostile army approaches with his cavalry drawing in the horizon of inevitable despair. The vision of the just value is but a subliminal regard which has no more effect than another but as it disappears it draws out all hope and faith in the future.

The greater the quest for the value and meaning of things the larger the perspective of the interlocutor.

In the orient people discuss the value and prices of articles. It is fairly obvious that each person in his respective camp will have a tendency to defend his own essential needs, one trying to sell his wares for a higher price and the other, trying to buy the wares for a smaller price.

What is the importance in this discussion of prices? Is it to win a battle; or is it to try to find the value of the article being sold? Should it not be also to try to qualify its usefulness to its possible buyer and its absence to the vendor? For instance the advantages to its new owner could be; a horse to plough a field, a vase to store grain, or scales to weigh out a transaction. However, the horse has little or no value to a sailor or a train driver.

We can determine the value by the vital necessity of the object leaving its owner and going to the buyer. If the owner has made good use of the object (the horse) the buyer will easily understand and appreciate its value. After the sale, if the new owner continues to make good use of the object the value will then be confirmed and sustained. In these perfect and theoretical conditions the world is happy and harmonious. As I have already suggested the light is clear, the comprehension easy and people don't have to worry about being cheated or not, their needs are evident and the vital attributes to their lives are obvious.

What happens when people don't know what they need? The obvious value of their vital attributes does not just disappear; it becomes dispersed between the too cheap and the too expensive. This does not mean that the vital attributes lose their value, a horse will always be a horse and, in any epoch, it will always have a defined value.

What is important is that at any instant a vital attribute has a precise and qualifiable value. When people recognise their vital needs and attributes the value becomes more and more precise like a light leading forth into the future, but, when the horizon of their long term needs become obscure and recede to satisfying capricious and ephemeral impulses, the value of things opens up its arms to a wide panoply of possible prices. People can easily lose their vital repairs (guide lines) because the value of articles become extremely varied. They won't know who to trust or what to think. Their horizons close in upon them and they lose faith in their fellows and hope in the future.

Let's look at three dimensions of vital attributes and their values. The three dimensions can be divided into; the individual needs, the community needs and the world's needs. Similarly, vital attributes can be divided into three necessities, short term, long term and eternal.

An individual can say; "I want that car", or "I need a cigarette" or "I want lots of money". All of these needs have a value of some kind or another but are good and bad in different circumstances.

Community needs are similar, they bid for values to defend their particular needs; a nuclear power station, or a sewage plant or a motorway; each having a precise impact upon the wishes of one and an effect and fall out on neighbouring communities.

Worldly needs and values are those which protect the continuum and well being of life on this planet, and perhaps beyond. The cost of replacing what we take out, surveying it, maintaining it, and listening to it through our respect and good intention.

The word vital implies that every merchandisable object or act has an infinite and immeasurable value, like trying to define the value of a human life. When I was young people used to tell me that the value of a human life was inestimable. I have discovered since that the value of a human life is very easy to calculate if you count how much it is not worth or how much it costs to save and protect it! Look at the value of life insurance premiums, the cost of a bowl of rice and the price of medical care! If an individual is unique everything that constructs his destiny has an infinite value. In an ideal society the question of money would not even exist since and the only real preoccupation of people would be to look for what each other needs.

Unfortunately the country of Principles and it cannot exist without its neighbours the country of Values. This is because all principles, even the life of a human being, have a real and calculable value. The ultimate ethical code must be evaluated on the vital needs of the greatest ethical dimension known, that of life on Earth and eventually our universe.

However coming back from idealism it should be possible to calculate the value

of objects and acts in reference to relative efforts of time and energy needed for: the extraction of raw materials, their modification, maintenance, replacement, and by measuring the impact on the environment and its recuperation.

The hand of humanity has cut open the Earth to extract everything that he wants, now he must put something back and look after healing the wound.

It is at this point that we invent the value of an object or an act. It is a measure of the vital significance to the buyer and vital reconnaissance of the vendor. The more defined and close people are to their destiny the easier it will be for each to recognise the value of their needs. To recognise their destiny they have to search for their individuality, through quantitative illumination of their inaptitudes and quantitative identification of their aptitudes. In this way they will be able to recognise where they are most or least useful and competent in a consensus.

In a well balanced society it should be easy to define the value of things, but as I have said, in societies where the gap between the too cheap and too expensive is at its extremes people lose hope in the future because their horizons close in and sometimes implose upon them. (Like the principle of a black hole.)

The exact or unique value might be impossible to ascertain but I believe that in near ideal situations we can have very good ideas of how much things should be worth.

Can any one individual find the value of an object, or an act, in a society which has little or no repairs (guidelines) and ephemeral horizons? Yes I believe that at all moments it is possible to draw out the horizons with good faith and good intention, but you have got to have a lot of energy if you are sitting on the edge of a black hole.

It can be very tough. Intelligent and coherent people can come along and discourage you by explaining that it is impossible to make a good living with altruistic or idealistic values. Others might say that, "by not cheating" you are menacing the lively hood for everybody else in the consensus. In a faithless society it is almost inevitable to collide with animosity and despair.

This reminds me of the battle of imploding quasar stars, immense giant stars, which start to collapse under the weight of their own gravity. They either disappear into a black hole or explode and regenerate all their matter into a fresh new components to make new stars and matter. As I have mentioned before, it is generally believed that when matter is crushed together bigger atoms are made and the complexity of the universe evolves. You can see from the diagram "Comment naissent les galaxies" the old and new theories of how galaxies evolve. According to Trinh Xuan Thuan in his book "Le Destin de L'Univers Le big bang et après" 60% of what we see in the universe is spiral galaxies like ours, 30% elliptic galaxies and 10% irregular galaxies. Elliptic galaxies are two spiral galaxies which have come together to make one galaxy with two cores and irregular galaxies are two galaxies that have crashed together to make either one bigger spiral galaxy, an elliptical galaxy or, they just pass through one another.

It seems that the spiral galaxy is the most stable and constant form in the universe, but what keeps it from collapsing or exploding like a quasar star?

All galaxies need a central black hole to maintain the influence of gravity inbetween its event horizon and its light speed horizon. I have the intuition that these two horizons are like those two lands of ambitions and principles. If one or other of the two kingdoms take over it will either implode or explode. This was great when the galaxies were young in order to make heavy particles like iron, carbon and everything we know. Now that we have all the material, we need something inbetween the two lands to maintain the stability of the galaxy. This is where I predict the épanouissement of smaller black holes all throughout the galaxy, necessary to

maintain a self reflection of each horizon everytime the extremes start to pull to much to one side.

This also illustrates that the evolution of the universe to create galaxies with sufficient, subsidiary, balanced black holes could have taken much longer than 15 billion years and questions once again our traditional image of the universe in expansion. (Nb. I don't question the theory of the Big Bang. I question its predicted date and its expansion.)

I believe that the the search for truth automatically enhances the equilibrium of any quantum entity be it a living being, community or a galaxy. The quest for absolute values and principles distributed amongst subsidiary elements maintains the distance between the two kindoms. It is the faith and good will of those who believe in them who maintain this balance

To believe in absolute values and principles is rather like believing in God. No one knows who or what God really is, but we can always have a good idea of what the value of things are just by calculating the average of what people estimate it to be. Here again the description of our universe is coloured by the wishes and faith of its occupants.

### What Goes Wrong Can Go Right.

Why does a country wait for disasters to occur before repairing rail tracks, sewage pipes, or banning carn-flour (carn=meat) for herbivours. (Feeding beef cattle with flour made from the rest of carcasses from slaughter houses is thought to be one of the causes of mad cows disease.) I don't want to sound pernickety. I am talking about constant disasterous grave erreurs which fringe the deliberate, the non assistance of people in danger. It seems that politicians of human consensuses all over the world only seem able to administer fire engine investements, for bailing out, repairing and retribution.

If a country does not know who can do a job everybody can become a track layer, a pipe layer, farmer or other. If tracks are layed any old how, pipes keep leaking and farm food becomes tasteless, no-one will want to take the train anymore, pipes will be leaking everywhere, all around, and undernieth us, and everybody will be eating bad food and becoming annemic and defenseless.

Where is the real track layer, the real tunnel man and the real farmer? Perhaps he is dreaming of lots of money or on the contrary he is wondering how he is going to get by at the end of the month. One is not better than another, and in either case the job is not being done properly. Someone might be bodging his job for money and be raking it in, but, since anyone can do as well, the termites will soon get on to it and send out their slaves thus organising the controlled money-grabbing. The more termites are powerful and the poor slaves, poorer, the more the decadence creeps in and the flavour of life disappears

A man has to search and struggle to find the right level, a rich man has to be rich in heart and learn to do his job properly. A poor man has to learn how to appreciate the great value of his work and convey these riches onto his fellows. A rich man will probably never be poor and a poorman never be rich however to save the value of their joint profession they must work together so as to give their customers the wish to consume those goods that only they are really capable of producing.

How does an individual find his real vocation? I mentioned in the last chapter quantitative elimination of his inaptitudes and quantitative valorisation of his aptitudes. For instance to be a painter one must know how to draw the paint out. I have seen people who are incapable of doing this, and others magiciens. One needs to know how to plaster, again a proportion of the human race are totally incapable of plastering

and others "a piece of cake". If you say that for each aptitude only 50% of the population are capable of doing one facet of a job correctly you only need 32 facets before you discover that there is not one person in the human race who is apt! (4000,000,000 people)

This quantitative aptitude analysis enables a consensus to help an individual search for where they can bloom (épanouire) with his contribution, right back into his early education.

When a man starts out in the quest for his real job he is confronted with all sorts of problems, greed, sacrifice, and exclusion. However a man who really follows his heart will at first feel alone then all the world will turn to him to voyage on his magical rail racks which he lays, or to taste the happy products of his farm, or to drink fresh clean water from the pipes to his tap.

Mankind does not know what is bad until he underlines it, so that when all is bad he starts longing for happy train rides, clean water and tasty food.

When everything is right or good it is so evident that it is unrecognisable. Bad is not really bad it is simply the absence of what is evident. It is the flight from the obvious, what is right is that which resonates at the center of all things, all around and in everything which "is", and, always will "be". A man who walks in the right path will always find the center of everything.

Thus those on the true path will only see heaven on Earth.

## The Reality of a Quantum/Relative Gravity

From these two essays you can see that in a consensus where the value of things in a consensus becomes obscure, and individuals can no longer find their aptitudes the horizons of the society close in upon them and the society eventually collapses. In history societies rarely disappear, they are often vanquished, enslaved, or dispersed.

I have suggested that to maintain a far reaching horizon a society needs to have clear consensual ideas about the value of objects and the nature of the individuals there within. What is necessary to do this? It is necessary for those within believe in their unique nature and the unique value of things. This belief is the polarising element. It is the link between the past and the future. Without this belief the consensus will break down and the light will no longer be transmitted to a next generation.

I think that it is this polarising element which is representative of light in a scientific comparison. Does light enable the history of a precedent plague to go through to the next?

## Time

What is time? Is it now, this instant? It seems to flow but mankind chopped it into minutes and hours, days and weeks, so that he can compare bits of it, one instant with the next, one day with another. What about God? Does he see it this way? Man counts in Earth revolutions and solar revolutions; God might count in Galactic revolutions or universal revolutions. Who knows? Perhaps he just doesn't count at all.

What is this sheet sweeping across the destiny of all things, pushing hours and minutes across the universe always inexorably walking fearlessly forward towards the unknown like a untiring warrior leaving memories behind him, like dreams of the past that flow backwards as he advances, always getting further away, further than we can reach always fading from the grips of our memories.

This is time, this infinite instant reaching out over everything in all senses everywhere

in the universe. At this singular instant the whole of everything is sharing this moment with you and I. It never stops and never starts, some see it as rolling down a weary lonesome trail to death and others as an awesome victorious climb to the glory of life and light. The reality is somber whereas hope penetrates our enthusiasm perpetuating the endless quest for the future.

Scientists say that the stars we look at belong to the past due to the time that the light has taken to arrive. All I can reply is that whatever instant we find when we go to visit these outer regions we will always share the same instant otherwise we shall fall into a dialogue of exclusion and I don't believe that the universe can survive a dialogue of exclusion. Whatever, I think you will answer this enigma if you understand the following chapter.

What is light? In any gravitational plane light is the reflexive passage from one plane d'épanouissement to another. In any plane it is the recognition of the king and queen at one particular instant. In any one tide of movement of quantum entities it is the message which goes through to the next plane, the blossoming of two complementary quantum entities; one "raptor", the other "nature" in the plane "virtual" the environment in which this event occurs.

1/ A scientific image of "raptor" would be an energy space entity whereas the "nature" a singular massive entity.

2/ In philosophy the man goes to work, raptor, the woman stays at home.

3/ And in psychology the spirit conceives that which he has felt through his perceptions.

Time is the measure of our instants it is how we compare everything we do. Every event is a plane or song carefully measured chronologically so that we can analyse it and jump haphazardly into the next instant, the next adventure. We add all the experiences of the past and then throw them into the future in the hope that they will bring us the answers to all our expectations.

Earlier on I talked about David Hume who taught us that philosophically speaking no one event of the past can be proved to be conjoined to one in the future. The airplane hurtling towards the ground is not total proof that all the occupants are doomed. There is no proof that what is happening now will affect the future in any one or other empiric form or manner. I went on to say that in that case I saw the universe as soup of quantum entities all sitting in the same place, making different faces at one another as God blew winds of moods across the universe. I am sorry that I had to resort to God but I would nevertheless like to look at these winds and suggest as I have more or less done so before that these winds are like tides on a beach, (plane).

What I am suggesting is that these tides are the expressions of the three or four fundamental forces; gravity, the strong nuclear force, the electro-weak force and the electromagnetic force. If you like the gravitational beaches are the largest and most important tides in any one conceptual plane and the electromagnetic or light force the smallest, each having in their extremities their own personal complements:

gravity - the electro-weak nuclear force and  
light - the strong force.

This construction of the universe in which we live is the way God has set his watch. Gravity being the immense tide that sweeps out across the primordial beach of quantum entities (neutrinos). On this beach one finds groups of larger quantum entities defined by the strong nuclear force making beaches of their own, the tides being the electromagnetic force.

In other words gravity is the first liaison between to primordial instants of time in our conceptual universe. We conceive it by its continual pull or acceleration. Electromagnetic radiation is higher liaison in the building brick of time. And perhaps there is another and last building brick in our universe, thought and conception.

If gravity and electromagnetic radiation shake the sheet of time, how does this work?

## A String Theory

If the human spirit represents the human consensus what is the compliment to the human consensus; everything which is extrasensoriel. God represents every optic and or act above and beyond the human consensus. He represents the destiny of man. He sees behind the clouds, hears the sirens singing in the wind and feels the morning dew soften his footsteps as he wades out into the future.

What ties up all the tabloid plage d'épanouissements? Strings of events or strings of tabloid plage d'épanouissements of the past. Time allows everything to evolve. It changes a picture into a tube of pictures, a string of events which changes the face of the space which that picture occupies.

Imagine being followed by someone, spied upon. At first you are like everyone else who has that incling, the incling that you are being followed, and dismiss the thought as being neurotic. A string of past events pulls at your side and you pass it off as of no consequence or, no importance.

A twig snapping in the past was the indication that someone was following you but it was in a child's game years ago; and a twig snapping in a war film meant the end of some poor victim; but at that moment a twig snapping does not necessarily mean that you are being followed.

A twig snapping is a real and definite indication; just as an object quickly disappearing behind a corner. Your intuitions are made up of real strings but not necessarily perceived consciously. You could call these intuitions subliminal strings because you can't define them or describe them but you feel them and start looking for real signs and confirmations of your intuitions.

The other day I was watching someone doing his garden from a high ledge on a roof whilst doing a painting job. I had heard him working away all afternoon and was curious to know who was there and what he was doing. At first he did not know that I was there but little by little I had the feeling that he knew he was being watched without really knowing consciously. As soon as I started to look at him I felt a string pulling. The pulling was saying to me either I say hello, or I hide and get on with my job as though he did not exist.

What is it that tells him that he is being watched. First of all I usually make a lot of noise like singing, whistling, sanding, jumping up and down and slamming doors. (Never take me on as a painter!) When all this stops he will notice that something is missing.

This would be of no consequence if it were time to go home however in the neigbhoughs "noise world" there is an inhabitual change which is virtuel by definition since it is absent. This inhabitual change in his environement does not disturb him but allerts his intuition. It is the first subliminal indication that he is being spied upon.

A tiney string is attached between the nieghbough and myself.

Now in this storey I did not want to take the experience further. You could say that I cut the string by filling his world with my usual painter's clatter of, out of tune singing, scraping and slamming doors which whilst being very nerve-racking is much better than a deathwatch spy string of a murderous painter on the rooftop.

Imagine someone who wants to spy on a harmless rich defenseless old lady. The spy walks towards he house then stops behind a tree and pretends to be lighting a ciggarettte and waiting for someone. The moment he does something unconventional the whole world turns towards him. Normally anybody who walks down that street goes straight on, there is nothing to contemplate and nobody makes rendez-vous there. So as soon as a shaddows or steps stop the whole universe around that man in

that street is alerted and waiting for everything to carry on as usual. Strings are attached. They don't just disappear.

If he comes back the next day the strings will get stronger. Perhaps the old lady won't realise what has put the wind up her but she will feel just that little bit more nervous. The first time she had noticed her neighbour looking out of the window at something she could not see but his look was intriguing. The second day a dog avoided the tree that he usually sniffed at and then the third day she thought she saw an elbow peep out and quickly disappear. The strings were turning from an uneasy intuition to the direct confirmation that everyday something unexplained was deliberately concealed behind a tree in her street at a certain time.

This is not an adventure story; it is an illustration of how strings build up between two different individuals. Usually we associate spying with dishonest or marginal activities such as theft and warfare.

Strings are the ties between different events from subliminal insignificant hints, opening out into confirmed truths. It could be that the man standing behind the tree is doing a temporary job in the district and is waiting for someone to pick him up, or he could be Jack the Ripper. At every instant everyday of our lives we have to decide which strings are important and which strings are fantasies.

## Stationary States

Nous ne faisons jamais ce qu'on veut parce-que nous sommes que la somme des paroles de nos ancêtres

We never do what we want because we are the sum of the voices of our ancestors.

Following Feynman's idea that the path of light is the sum over all possible paths the same comparison could be advanced to describe a panoply of values for one singular object which is described by the sum over all its possible values. Similarly the sum over all the aptitudes and inaptitudes will constitute the unique identity of any individual. There may well only be one true God. This I cannot prove, but, the one true and only value in any temporal dimension (stationary state) for any defined object or gesture, is partially proved by the complicity of its participants. Similarly we have seen that you don't need more than 31 inherent aptitudes or facets to your character you to be unique amongst five billion people! (This calculation is deduced from the assumption that only 50% of the population have one of your inherent aptitudes and 50% don't. Each time you chose one aptitude you reduce the chances of someone having the sum of the same characteristics by a half and so on so that when you have reduced each chance by a half so many times you arrive at an infinitesimal possibility of finding someone like yourself.)

A stationary state can be defined as a *Plage d'Épanouissement* as well as a truth or an event. As I have already explained a *plage d'épanouissement* can be divided into two major categories: *tabloid* and *linier*, and one of the fundamental conditions of the human conception is that he can never perceive more than half the totality of any one *plage d'épanouissement*; *tabloid* from either the "front or the back" and *liniar* "inspiration or reflection". A *tabloid* *plage d'épanouissement* is the materialisation or crystallisation of events, histories, which create a scene, a mass, an object, a dimension or a universe; and a *linear* *plage d'épanouissement* is like a song, a cinema film, a theatrical play, a story, a series of events which make up an epoch, the lifetime of a person, the history of the earth. A *linear* *plage d'épanouissement* or stationary state is a string state whereas a *tabloid* *plage d'épanouissement* or stationary state like a three dimensional or holographic photo. In both cases all

descriptions and all witnesses always come from one point of view.

This raises the fundamental problem of the existence of truth. It is not because we can never see more than half of an event or truth that truth does not exist. It does not mean that because we can never see more than half of something that the other half does not exist. The wonderful advantage of a conceiving entity, a mind or spirit, is that it has the capacity to go back and forth in time in its memory to look at the other side. If one can see an article from both sides one can see the whole truth.

To know the whole truth about a *plage d'épanouissement* we either use our memory or we share a description with someone else who looks from the other side. When two people look at an object, one from one side and the other from the other they see the whole truth. To do this they use the same language or description and the fact that they share this description or language indicates their wish to comply with the rules and belief in the language or description of the object or event that they are describing. Together they make a consensus about the way they agree to describe the universe so that this consensus becomes a conscience itself and thus by definition can never perceive more than half of the events outside itself. So that any conscience whether it be individual or collective can never really perceive more than half that which is beyond itself. This means that the human race will never by definition be able to know, predict or describe more than half of any event outside the realms of its empirical universe.

So if any of your clever friends say one day that the truth does not exist you can reply at least half a truth exists and the fact that they talk betrays their belief in the language and descriptions of that truth, since they are using those very tools to of this truth to convey their contradiction.

One cannot prove the existence of truth, but anyone who dialogues, converses or talks believes in truth since he conspires in its description by using the tools from which it is constructed. This conspiracy illustrates that any individual can perceive, conceive and reflect half of any description of his universe. A consensus however can look at any problem from both sides thus the whole truth but only if they use the same dialogue. Hence the importance of a world dialogue to establish a polarity within and without the frontiers of the world.

A quantitative truth can be a relative nonsense; and  
A quantitative nonsense can be a relative truth.

Lets see if we can fit this into the schema of our problem of trying to define the speed or position of a quantum entity, the uncertainty principle or the Copenhagen enigma.

I have suggested that a human being can be compared to a quantum entity. What is his energy level and what is his position?

Lets ask the question in a different fashion. What is his expression as linear a *plage d'épanouissement* or stationary state and what is his expression as a tabloid a *plage d'épanouissement*.

Philosophers will argue that the view point is always one sided which is true but this is where quantitative relative reduction or expansion comes into play. A truth can either be reduced to a relative nonsense or a quantitative absolute or to say the same thing the other way round a quantitative nonsense and a relative absolute. This is quite easy to understand when you look at the upside down world in which we live.

The trick is possibly to interpose value and nature in the place of quantitative and relative. You could say that if the quantitative description of the world relates to its nature and the relativistic description relates to its value.

For example a man could have all the aptitudes to be a journalist but it turns out to be a dustman. His career could be defined as a quantitative absolute but the

relative nonsense.

Where is the truth in this stationary state? Where is one can look at an object from both sides, either by memorising on side and then going round to look at the other, or, by asking a friend to look at the other side for you.

Any one quantum entity can never by definition know the exact truth of any one object in any one stationary state. Firstly, because the object changes in time and secondly, because the object in front of you blocks the view of your friend. You might say that with a portable telephone he could ring you. In this case the time in which he tells you what the object is like the object could have changed.

What is the truth of this object that you want to find. It can only be the faith that a conscience, individual of consensual, can agree on the total description of an object in any one stationary state within the limits of the dialogue available.

In other words the journalist who is a dustman could be either one or the other but the value of his contribution will always found the light of his good will to achieve the perfection of dustmanbinning for the good of the consensus therein. A free society is one in which a dustman can be a king but to be the king he has to prove his situation. This free society depends upon the vision and respect of the truth that somewhere at some time in a stationary state there was, is, or could be the king of the dustmen. In other words it is the conscience of this truth which lights the way through to future assuring the prtotection of our heritage.

I believe that it is our conscience which guides us annd it is this element which is part and parcel of the waves which cross the universe.

### The Photon Comes Into the Quantum Bar.

What is interesting is that I believe I could not have understood who the actors were (the photon, the electron/barman and the customers) without having developed the preceding chapters to explain more about the construction of quantum particles and their relationships and interactions. This illustrated how when explaining concepts one has sometimes to take little bits from here, little bits from there, and then shake them all up and you have the whole picture but it is not necessarily a in chronological order. You might even find others building the picture in a different order. It reminds me of the multiple passages of light in Feynman's QED expereimnts. In these experiments he describes light not as the shortest possible passage between the photon gun and detector but the sum over all the different possible passages. (QED = quantum electro-dynamics)

I used the exemple of the quantum bar to explain the occurance of duality in the double slit experiment and almost took it for granted who the acteurs were and how they were related However on reading this through I soon discovered and that it was not as simple as I first had thought.

Let us suppose that the whole bar, all of it, has become a quantum entity in that stationary state when the photon enters, and the barman has become the most singular of singular natures representing everyone in the bar.

The whole bar and everything inside it, in that instant, has become the singularity (or nature) state of a larger plage d'épanouissement.

The photon is the energetic (raptor) state of a much greater plage d'épanouissement.

The raptor quantum entity and the bar join together to form, in this stationary state, a greater plage d'épanouissement. In this instant the electron (barman) of the smaller quantum entity (the bar) perceives the photon. He shines which means that

the whole new plage d'épanouissement is directed on him. Everything is aligned with him as if he were the model for the whole of the plage d'épanouissement like the spokes radiating out from a bicycle wheel.

This is why the interference pattern is representative of the plage of the double slit experiment in proportion to the size of the light source, double slit pannel and screen as opposed to every other atom sitting on the screen.

In front of our electron/barman there are all the customers, who are divided into two groups, locals and visiteurs. This is seemingly a different type of relation than that of the singularity model radiating out into the greater plage d'épanouissement or dimension. This is because whereas individuels are attracted sexually to each other to complete their complementarity; the groups are divided into a different sort of complementarity, those who are familiar with the barman, locals, and those who are strangers.

The difference is that each group is made from both men and women and yet due to the duality of the situation half of the group react in a global masculine way and half in a global feminine way. In this situation half of the total customers will be acting in an opposing way to their fundamental nature, homosexual.

If the photon comes in through the man side the local women will be attracted by the barman, since they know him and know that a man has come in (his reaction stimulates them), the local men will be repulsed. When the stranger women see the barman looking at the man door they think a woman has come in since his false interest deceives them; and ofcourse the men strangers will be attracted. Local women and men strangers are attracted and women strangers and local men are repulsed. In this exemple local women and men strangers are in the predominant female camp; and local men and women strangers are in the predominant masculine camp.

The men strangers are manifestly interested in the barman looking at a man. Although it is a trap and they could be anything but homosexual it is a truth in this stationary state. (It is a quantative non sense but a relative truth!)

Lets look at this stationary state a little closer. Local women know the barman and are interested when he looks at the man door. They represent what we could call the strong heterosexual voice of the quantum pub. On the other hand men strangers by defintion represent the homosexual voice. In between local men are "normally" not very interested and have got it right and strange women are normally interested and have got it wrong.

Therefore due to the sex of the bar man the whole quantum pub is quite well balanced but with tendencey towards masculinity. If the customers were served by a bar woman then the pub would be very slightly feminine. Due to the duality of the barman the whole pub has become a larger version of the barman. Like an electron becoming a muon (giant electron).

Who is the photon? To look at this question it might be helpful to go back to the theoretical construction of matter. I have sugested that matter, energy and polarities are all expressions of the same thing but change manifestations in different stationary states. Things as I have already said do not just disapper or appear for the convience of incomplete theories. The story of our universe and our existence is based upon the exchanges between matter, energies, and polarities.

A photon is discharged, given off, when an electron goes from a higher dimension/energy level to a lower one; and a photon is received when an electron goes from a lower energy level to a higher one.

How does this corrolate with the quantum bar?

The quantum bar illustrates how an isolated bar becomes part of a larger consensus or plage. Through the "secret discretion" of the well oiled doors a new dimension is created in between the duality of the barman and the customers. This duality has lengthened the "conception" of time from the point of view that information has first to go through the barman then down to the customers. Time does not take longer to go to the customers, they are simply obliged by the duality of discretion to wait for the news to pass through the barman. This reminds us of the two energetic beaches (plages), gravity and light. I ask then if the atom is not the first duality or quantum pub of the universe.

Gravity comes along to a nucleon pub called the Strong Force Arms where inside the quark customers are drinking at the bar served by a barman monsieur Photon (he must be french). The pub is so successful it makes a group of pubs managed by Mr Electron. This group is so successful that it become world famous and directed by Mr Conception.

### The Photon Was a Message

Why does the baddy always lose. The echo of murder always seems to find justice. Where does this information come from. Does justice wash to and fro across the consensus from its center of gravity?

There is a very interesting question I ask myself when thinking about only being able to witness half of a tabloid plage d'épanouissement. When I look at this page held out in front of me who is witnessing the other half to complete the conception of the whole page, back and front. Up until now I have always simplified the exercise by saying that someone has to look at the other side but it is not quite as simple as it seems.

If I am a quantum entity some other quantum entity must complete my vision like two people standing back to back, together they have a complete view of the plage d'épanouissement in front of them.

The answer is that it is only at the "moment of the message" when this type of "conception" takes place. At this moment you are your singular self and at other moments you are "not really yourself". What is confusing is the term complementary. To think of lovers looking at each other with stary eyes is an error! A complement looks at everything that the other does not look at, and hears everything that the other does not hear. A complement is complementary.

The example of the page held out in front is treacherous because a complementary vision of the page is not the other side but to look at everything on the page that the other does not look at.

If your complement is not here with you looking at the page then you will most probably not be looking at the totality of what is in front of you, but you will be out of focus or in duality. (I discussed this a lot in "Individualtis" if you would like to read it one day.) You could say that like in the quantum pub you could either be in a homosexual or heterosexual phase. In this phase you are not really yourself and thus not the prince or bar man, you are looking at the world through the eyes of someone else, models or representatives.

If light arrives in the event of the creation of a plage like in the developement of a higher energy level "ring" of an atom, we have the impression that it goes from a one source to another to illuminate its destination. What happens to the light source. The atom which lost the photon has an electron which drops an energy level. This atom must be in some way complementary to that which gains the photon.

It is always confusing to look at the stars because it is inconceivable to think of light as a liaison between elements so far away.

If you look at a quasar 10 billion light years away there must be something complementary between one of the atoms of your eye and that of one of the atoms (probably a soup of hadrons) of the quasar. I imagine that the atom of the quasar has very high energy rings of electrons probably amongst the highest in the known universe. A photon given off from the change in energy level of one of those electrons (probably a muon) will have to "cross" over all the different gravitational planes to reach your eye. It will have to come to the same energy level as those that receive it. In other words a low energy photon from far away (high energy source like a quasar) can be complementary to one high energy electron close up (as in a small energy electromagnetic body such as my eye).

We could postulate that a low energy photon from the high energy state of the quasar has a far reaching light speed horizon. The higher the energy level the further the photon can communicate across different gravitational planes.

You could say then if the quasar is 10 billion light years away it must have taken the photon 10 billion light years to get here. I would postulate that the photon or link between your eye and the quasar is instantaneous. The difference being rather like a poor man giving 10 pennies to charity and the rich man giving 100 pennies. The rich man is ten times richer than the poor man therefore they are both as generous. If the rich man sent his money from a quasar it would cost him 90p. A rich man from a quasar will be a poor man on earth. His money is like his stories (sum over the histories). By the time he gets to Earth he will only remember a 10th of his stories which will be comparable with Earth stories. The photon on the quasar belonged to "giant events".

So you see I believe that every photon belongs to a gravitational plane or dimension. In our universe there are quantum princes and princesses from one end to the other and in principle the further we look the further they go.

So what is light? It would seem that light is the way through to the future guided by the reunion of two complementary quantum entities. It is a singular expression in a plane d'épanouissement which guides the rest of the plane of quantum entities who are in duality. It is the alignment of their complicity in a unique polarity which give a luminous translucent flash across the plane. One could postulate that the flash takes at least two gravitational flashes or pulses of time and that although the flash is generally perceived by humans at the end of the plane, it existed all the way through!

Light manifests at the moment of the message; that instant when the complements are, for one instant, looking at each other in a state of sublime conception (unconscious awareness). It is during this instant that their polarities are aligned and become the focal point of the whole dimension or plane d'épanouissement. This focal point has a polarity within and without. It is a sublime instant; the king and queen are crowned in a new kingdom and their light is shed like a model for all to follow, and the polarity of their spin can cross the frontiers of the plane d'épanouissement (their kingdom) to the next.

When their model becomes the model for all the kingdom, "it is learnt by heart", the kingdom (plane d'épanouissement) shines forth into the next kingdom to join hands and in this sense become a quantum entity of a new and greater kingdom. For this their model must be constant and perfect.

So when the king and queen are perfect they are the light (spin) which will align the plane d'épanouissement and thus create a liaison within and without.

Conclusion:-

If I am right that: if the speed of light is the relative time it takes to make the

liaison or connection and that once the liaison established all communication along this liaison is instantaneous:

1 Schrodinger's relativity calculations will work.

2 Bell inequality will be correct.

The consequences are:-

-the marriage between relativity and quantum mechanics;

-and the scientific a priori that the universe exists, it can be experimented on with expected and predictable results and that nothing can exceed the "speed of light" but energetic liaisons having been established at the speed of light are direct and instantaneous at all distances. (note 10)

Thanks very much for being my motive and stimulation in completing this project.

Best wishes and love to all the family

Stephen PUGH

notes:-

1/ On, December the 28th the wind pushed all the boats in that harbour into that one corner. What is ironic is that during the two or three months that I have worked there I have never seen one of those fancy boats leave the jetty and yet the owners will all claim millions from their insurance companies as opposed to the old lady down the road who did not want to exaggerate in claiming £30 for the reparation of her roof. The poor will always stay poor Paul!

2/ A cartoon in the Times at the time of Stephen Hawkin's revelation of his Pea Theorem shows two scientists; one asking the other if this proves the existence of Pod?

3/ Individulantis; the combinaison of individuel and Atlantis, the individuel in an ideal consensus. It was originally the title of my thesis for my teacher training studies but has become the title of my book.

4/ The concept of **an instant** or **an event** has two important correlations in my studies.

Firstly our way of conceiving the world in time integral steps. In other words we conceive the world not as a continuum of movement but as a series of events like the projection of a film as a series of diapositives each representing an event. See diagram The Film of Time

Here is an illustration of the importance and significance of poetique scientifique vocabulary. We might see this later on when discussing the famous **event horizon** on the edge of a black hole.

5/ A two dimensional tabloid description could be the **square** of a linear musical one demensionel description.

(an instant)<sub>2</sub> = a plage d'épanouissement

There are suggestions of this in Feynman's research on QED and the loss of light in its refraction between two mediums, air and glass. In other words the migration of light from one medium to another; or from one dimension or plage d'épanouissement to another.

6/ Plage d'épanouissement, the blooming beach but in English beach would be translated by field like a magnetic field.

The sense is a dimension, a catchment area in which entities have the potential to bloom or express their essential selves.

7/ In France another word for energy or force is "effet". We say for example: "l'effet nucléaire fort" = "the strong nuclear force".

And another use of the word "effet" is spin, like the spin one puts on a billiard ball.

8/ One could say trying to look at a quantum entity is like trying to look at God.

9/ Dad gave me the idea of "raptor" when he related me a dream he had. He dreamt that he was back in Marsicoid, (grandpa Pugh's house and surgery in Builth). He was a special type of human being a homo-raptor, who were at war with the homosapiens. He was a fighter pilot and was supposed to hurry into his aeroplane because the enemy was approaching. However he was very relaxed because his raptor characteristic rendered him nearly invincible. (Nice to believe in one's self!)

10/ Three fundamental conditions invented by Bernard d'Espagnat.

## Reply to Paul's Reply

Stephen PUGH  
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33110 Le Bouscat

Paul Christian  
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Buxton,  
Derbyshire,  
SK176RD.

Dear Paul,

Thank you very much for your letter, I loved it and have already read it three times. I loved it because you treated me kindly with respect as though, me too, I have the right to think about physics, psychology and philosophy. I also found a genuine warmth radiating out of your words and a sincere interest in what I have done and am still doing. In fact it made me feel quite guilty for not sending you a Christmas

card deliberately last year because I thought you had ignored it.

During these last two years or so I have been correcting it and I am quite sorry for all the mistakes I had made and also not clarifying some of the concepts. It took me, nevertheless, two years to do the prototype and I felt I just had to send you something. I was particularly sorry not to have developed more coherently the concepts of quantum entities and *plage d'épanouissements* which I have tried to do since. I could immediately see from your comment on the quantum bar that I had failed in this mission however I am very excited that you took so much else from the other ideas I have been promoting. I must confess that I gave a copy to Dad and to two of my "intellectual" friends. Luckily each saw something different so I have the impression that perhaps between the three of you, the whole message got out, but it will take a while for the three to mix up and meet to form some sort of coherent picture for the whole of the human consensus!

I am touched by your faith in God and the way you openly revealed this to me. It is obvious that I believe in something and that I sometimes pray to God, but my mission in Individualitis is to pursue a universal dialogue to save the world from autodestruction through not being able to share and measure its resources. My father has been an ardent atheist all his life. This has been something I found very difficult but through my perseverance to cherish him I have learnt the biggest lesson in my life, what we call in French, laicism, a code of ethics without religion, favoritism and segregation. Thus in my search for ideals I feel obliged to avoid religion, esotericism and multidimensional explanations of the universe such as: God, the national front and the superstring theory.

You said. "I was trying to understand what you were trying to say or prove." If I am not mistaken in Wales I talked to you about my project and told you that I was stuck on the general understanding of light and that I suspected that the Mars explorer had crashed because of a human misunderstanding of the speed of light.

I remember thinking at that period that if light travels to Mars instantaneously and we on Earth thinking that our messages were taking several minutes, by the time we thought it was the moment to tell the explorer to ignite its retro rockets, it had already crashed onto the ground.

Even if this were the case no-one would be stupid enough to say anything since all the research credits would be heavily questioned. (Unfortunately there is a little quantum entity in the world called Stephen Pugh who just can't help asking these types of questions.)

The mission of my letter was to try and explain that, things can go faster than the "speed of light", that the light that we receive from all over the universe is instantaneous, and also a general description of light.

Looking back I discovered that we both knew the answer to several parts of these questions or found evidence a little while afterwards; in particular light being a constant and traveling at different speeds in different mediums. My letter to you was to try and explore these enigmas and explain why the Mars explorer had crashed.

I thoroughly enjoyed writing your letter and have greatly improved the definition of quantum entities and *plage d'épanouissements* and have amplified my quantum bar explanation which has thrown new light on light. I am at present exploring the concept of anti-matter and thinking about trying to find a formula which will marry quantum mechanics and relativity but I shall need a lot of help so I am praying that God will send me someone. It is going to be much easier and much more difficult than you think. Easy for you from the point of view of physics and mathematics but difficult to believe

and conceive what you are reading.

I must admit that if a great physicist came up to me and said that I was painting the wrong way round I would be a little surprised to say the least.

I would really like to go through the corrections with you, but I feel that it would be better to do this in person. I want to go to England next year with Marie Christine and would love to come and see you. If you cannot put us up we can easily find accommodation. If you come to Paris you will only be three hours away on the TGV (Train de Grande Vitesse) so you will have no excuse. In any case you can come whenever you like, with Caroline of course.

Paris sounds a very exciting adventure. France is one of the most dynamic countries in the world at the moment and don't forget it is where Aspect confirmed the EPR predictions of "spooky action at a distance".

This brings me to the one correction that I didn't like, the problem of action at a distance. Page 7. Light Beam Suckers. "I really liked the idea," but.....

I am sorry but I still believe that there is something instantaneous about light, however all the evidence in the universe seems to indicate that we perceive light as going from one place to another; for example from the sun to the Earth. Your example of a photon striking an atom which subsequently gives off another photon of a different polarity is a good example.

However, if light is of an instantaneous nature and in some way the sucker determines the emitter and by chain reaction, everything in the universe is linked up, from the very beginning to the very end. One could say that the universe is just a flash of inspiration in the imagination of God. (The bishop Berkeley said this.)

I personally use another example myself which I feel symbolises the problem of the "voyages of light" in space.

How can my eye be the light sucker of a Quasar star ten billion light years away who emitted the light which I perceive before the world was born?

This question is my worst enemy and my best friend!

I think one of the solutions lies in the word instantaneous. I find it confusing that we use so many different ways of describing time, in particular in science, an instant, an event or a history. My most frequent way of describing light is as an "event" or "instant" rather than the impact of some sort of microscopic fire ball, or wave.

Philosophically I would define light as the sublime singular representation in the accomplishment of a "history" in a gravitational plane d'épanouissement. (History meaning the detailed amplification of an event or an instant.)

A more fascinating perspective is that in any gravitational plane d'épanouissement light can be perceived as starting from any one point and finishing at any other. Of course, I believe this to be our human anthropic conjecture which leads us to conceive light as starting from one place and finishing in another.

Imagine the prince of our dreams riding out across the galaxies in the "infinitarium" of space time, and the moment his lance pierces the heart of the dark matter dragon he looks up to see his princess shining down upon him from her lonely ivory quantum tower and all the universe a glow with her.

The light coming "from" the quasar belongs to an event in the gravitational plane d'épanouissement of the quasar. The quasar star has enough energy to make an "event" which can be witnessed by us in that same gravitational plane which has a diameter of at least some 20 billion light years. The gravitational plane of the quasar

radiates out to make a sphere around the singular central core of the quasar itself, whereas the light traveling from the quasar to my eye cuts across the diameter of another sphere, the sphere of the "light event".

Can part of this event exist after the death of the star?

The traditional way of replying is to say that the star no longer exist because the "photon" was "fired" some ten billion years ago and has taken all this time to reach us. The problem for me is how can one photon particle light up at least half of the gravitational plage or plage d'épanouissement of the quasar?

You can conduct Young's double slit experiment with one individual photon and still have an interference pattern. This clearly illustrates that one photon affets the whole screen even though only one electron enregisters the "landing point".

This is why I race off to psychology assuming that the human spirit is a quantum entity just like the electron in the phosphoric atom on the cathode ray tube.

You could ask; can two quantum entities conceive only one photon?

Experimentally speaking they can both perceive the same photon. In other words they didn't actually see it but they both knew it was there. Like in the quantum bar the electron barman conceives the polarity of the miss world coming in but the clients along the bar only perceive his reaction. Perceiving means you take in something which you do not know how to reflect, whereas conceiving means you take in something which you reflect truely. In the context of this essay perceiving is to light up or "glow" and conceiving is to "shine".

Perceiving means only to refering to the singular quantum entity of a palge d'épanouissement, the king, the fortuitious model, the champion.

Conceiving means receiving a photon or information coming from outside the plage d'épanouissement and reflecting it out again.

Ofcourse in the case of this essay I am usually refering to a plage d'épanouissement as being the equivilant to a gravitational plage.

When a quantum entity receives a photon it glows back to the entity which shone at it. Within the horizons of a gravitational plage a quantum entity perceives light like those atoms on the screen just 'lighting up', whereas the singular electron which receives the photon conceives the light and shines. Conceiving is passing the message on over the horizon. If you remember this is where spin comes into play. Quantum entities inside the gravitational plage have to wait for the barman's reaction to know whether or not it is interesting to turn round and get a peep at Miss World. The barman knows the whole event whereas the clients only know half of the event. A perception is therefore a half spin event. The conception is the reception by a priviledged quantum entity of information from outside the gravitational plage. This is how I confirm light being a one spin particle.

Coming back to what I was saying earlier if the conception of an event is instantanous why do we beleive that the star sent us this photon 10 billion years ago?

When we look at cold photons from the so called begining of the universe we are looking at the largest events of our known universe, or at least half of it.

Ah hah, why only half of it; well if you are really nice and promise to come and stay with us I shall tell you.

(I assume you have promised, being a Godly man.)

An event is not just built up from a begining to the present it also has a conclusion. The begining is the past, the present is when you conceive it and the conclusion is the future. So if you look at a cold photon from the "Big Bang" you really conceive the amplitude of the history of the universe from its begining to its end! Which in one sense sounds ridiculous at first but there again, you wont have seen the whole history

of the universe until you've seen the Big Crunch with it!

You could quite rightly argue that to see the Big Bang all one needs is a high flying balloon over the antarctic with a freezing cold gamma ray detector on board. (Gamma rays are the highest energy photons known.)

I am going to propose a compact way of looking at this.

Let us say that someone who sees the light is the person who conceives the light. What does this mean? It means he saw the beginning of the event and saw the end as well. He shone with it. He conceived the consequences of the beginning to such an extent that he shone knowing the results of the following history to come.

You can go further and say that the light came to him because he was on the way to that same future at that instant and therefore he became the light sucking machine.

When the balloon in the antarctic detects cold photons from the beginning of the universe one person in the highly developed race of quantum entities has conceived it and shone in with it whilst the rest of us were simply a glow with the news. One of us has conceived the beginning and at the same time the end as well. (Let's hope it is at least 15 billion years away.)

My problem is to understand the size of an event. What do I conceive coming from this quasar star some 10 billion light years away? Am I part of an event of which the larger proportion has already died or does the quasar which I conceive still exist?

Normally speaking if, my vision is correct, the person who sees the quasar with his eye is the quantum entity who is the singularity of the gravitational plage d'épanouissement of the light event emitted from the quasar some 10 billion light years away. Our human anthropic impression is that the star emitted the light and this singular person received it. Can the dead quantum entity of a burnt out star which exploded some ten billion years ago be linked to the eye of a living person today who conceives the "light event"?

Is light exclusively a living event or can one of the partners have disappeared?

I cannot answer this question thoroughly but I predict that although I feel it is quite possible that the quasar star has exploded and disappeared, the quantum entity of the quasar star with whom we communicate is "alive" and will live on for the same amount of time that it took for the light to "come" to us. Don't forget that after quasar stars explode they create dust clouds which concentrate into stars again, so in this sense, they still exist.

The speed of light was calculated from the predicted appearances of Jupiter before and after solar eclipses. From this we were able to calculate that the photon we were seeing coming from the sun was emitted some eight minutes earlier. In other words our eyes were perhaps inside the house at this moment, we go outside and receive a photon fired some eight minutes earlier! This means that the quantum entity which lead us to see the sun belonged to a sixteen minute event, eight minutes belongs to the past and eight minutes belongs to the future, if I am not mistaken.

This has caused me two weeks of mental blockage and I cannot put this letter in your Christmas card.

Now I think the answer lies in the simple definitions of gravitational plages, perception and conception. The photon which left the sun eight minutes ago is not necessarily the same as the one I receive in my eye. In other words I am not the complimentary quantum entity of the quantum entity which emitted the photon from the sun.

The earth is a quantum entity in the gravitational plage of the sun which receives a photon from the sun. This interaction is an event eight minutes long. The prince light sucker seems for us humans to have sucked it at the end of the eight minutes and the sun seems to have fired it in the beginning. But as you know I believe

this to be nothing more or less than a human anthropic condition of conceiving the universe.

The greater quantum entity of the earth transmits to my eye that it has received a photon during a period of eight minutes but as far as we are concerned it was eight minutes ago. As far as the earthly quantum entity is concerned he could have sucked it first eight minutes before it was "fired" or four minutes earlier or in infinite quantity of possibilities (histories). What my eye perceives is the sum of these histories some eight minutes later. In other words when we look at the sun we are not looking directly at the sun we are looking at a quantum entity which is telling us a story about the sun and he needs eight minutes to fill us in on all the "history", what we conceive as the sun is in fact a greater earthly quantum entity telling us a story about the sun. The greater earthly quantum entity whatever he is.

This poses several questions. Who or what is this greater Earthly quantum entity? How can we incorporate this new description into our traditional image of the universe and in particular the speed it takes for light to come from quasars? Finally how does this earthly quantum entity conceive messages from different gravitational planes like Jupiter or from explorer crafts.

I think the answer to the first question must be that we are part of a group conscience, so that the further we look the greater the conscience which communicates what we see. This conscience must of course be the greater singular quantum entity of the greater gravitational plane. I cannot really say any more except that this fits in rather well with my essays of giants speaking slowly and the micro world living in an accelerated form. It also throws light on the way trees seem to be aware of their position in space forming a collective whole when planted close to each other. If it is a bar man super electron which tells us what we are looking at, the further we look the greater he becomes.

I have never liked the way scientists have used the Doppler effect to calculate distances in space and my theory now really is starting to show why. The light we see from a quasar comes from a gravitational plane well beyond the frontiers of our own galaxy the milky way and far away from our local cluster of galaxies so that the gravitational planes crossed over are immense but never the less limited in number.

In other words when we look at a far away quasar star the obvious gravitational planes are; the earth; the sun; the milky way and then perhaps our local cluster of galaxies. I am not sure but I think there are more than this.

I had a vision of different dimensions many years ago. It was as though when I looked out from my head, my internal mask, I went into the dimension of my room with which I had an intimate relation, beyond the french doors I looked out on to the surrounds with which I had a local relation, further out I had a distant relation and towards the horizon I had a fading relation.

This could be an example of my personal anthropic gravitational planes as they radiate out from my quantum being: my head, my room, the house, the street, my sector, the town, the outskirts, the county, the region, the greater region, the country, the greater group of united states, the hemisphere, the Earth, the Earth and stratosphere, the geostationary sphere, the Earth and Moon, the Earth and accompanied sphere, the solar sphere, the solar sphere to the asteroid belt, the solar sphere to the giants, Jupiter and Saturn, the solarsphere to the cold and lonesome outsiders Neptune and Pluton, the extra solar regions, the greater extra solar regions, the local spiral arm of the Milky Way,,, and so on.

We are only capable of identifying three or four definite scientific gravitational planes in the universe but there is evidence to suggest that they are many more integrals than meets the eye.

Insects seem to live in a faster world than us therefore in a "smaller" gravitational plane but they still seem to share our earthly global gravitational plane.

Philosophically speaking the gravity of our acts have different impacts with regards to the proximity of those they affect and their impact can be easily be graduated.

Constantin Coutsomitros research scientist of greek orgines in Sciences et Avenir Dec, 2002 replying to the concept of gravitational waves, "No, no, one must not describe them as such. It's better to talk about gravitational graduations....."

During my job on the Arcachon Basin in the evenings I used to muse at the surroundings trying to find an entry into the distant dimensions that I imagined before me, looking for a complementary quantum entity to lead me in like Alice walking through the looking glass. I never found anybody! Perhaps I simply lack imagination.

In other words to speak to someone about the big bang we have to talk to the quantum entity who lives in the gravitational gradient or plane of the Big Bang but according to my theory this plane also incorporates the Big Crunch and the story of the whole of our universe.

If I am right I think that when we look at cold photons we are only looking from the half way point of an enormous gravitational plane and that the universe extends far beyond what we can see. If the universe is really 15 billion years old, (which I question,) then we are looking from the half way point of a 30 billion year gravitational plane, half going back through the history of its construction, the past, and half the history of its consequences, the future. Philosophically speaking the light we perceive is the sum of the histories that created our present day situation and these histories will be those that model the consequences of the future to a predictable a relative end.

For the quantum entity who tells us about this quasar some 10 billion light years away the light has just been switched on. Not only that he can easily see where it is going to fall. For him it is evident. He conceives the beginning and the end.

In this greater gravitational plane light seems to travel faster. If our universe is a giant lighting his cigarette, imagine the time he will need to smoke it! For the gaints, they perceive their photons as going at the speed of light, 180 miles pers second. For us their second is nearly the life of the universe. The voyavge of light in their gravitational plane is their smallest event. It is the smaest piece of puzzle in their picture of their universe and yet for us it is nearly our largest.

It is the same for the micro-cosmos of ants for example. The photons of their world seem to go even faster so that their stortest events are much smaller than ours.

How do we conceive events from outside our immediate gravitational plane? You could quite rightly ask me what is my immediate gravitational plane. Is it my room or is it the Earth's? I would like to postulate that it is probably my room, my house, my town etc, although I haven't really reflected seriously on the boundries of these "integrals".

As we have seen from my quantum bar analogy it is the singular quantum entity who conceives the information from outside the gravitational plane or plane d'épanouissement. If you and I are just having a little drink together whilst Marie Christine and Caroline are in church and a fabulous bird comes in (not with feathers), we have to sus out the degree of lookability from the bar man's reaction. In other words we glow but we don't shine. We perceive something where-as the barman conceives Miss World, and ofcourse being a particulary bad Christian I have to wait a spin before I can get a little peep. If the shine of the barman is a whole event, our glow is a half event.

The barman was the singular quantum entity who leeds us into the higher gravitational plane. He paints the picture of what we can see in this plane. In my first

book I describe in detail my vision of how our thoughts are diffused upon our body. For instance I predict that a saintly man seeing a dog run in his sleep will be able to picture where the dog was running, what he was seeing, sniffing and feeling.

What I am predicting is that when we look out of our gravitational plage we are looking through the body or conception of the singular quantum entity, king of the kingdom of his gravitational plage. Who is this king? It is a quantum entity who in a fortuitous moment captures us and leads us into his vision of the past and future of what is the greatest, marvellous, simply simple being, being in that tiny moment. Tiny moment a little bigger if you look in a macro direction and smaller in a micro direction.

Now my dear Paul if you want to calculate the marriage between quantum science and relativity you must first of all believe in harmony, secondly, search for the horizons of these gravitational plages, then you will have to look for standards of astronomic measurements without using the Doppler effect. You may then be able to tell the Nasa when they can turn the retro rockets on of a Mars space explorer!

To do this you have to be pure of spirit with the one ambition of lighting the path to the future from all that is good from the begining of time.

If you have really enjoyed this I shall be over the moon and quite willing to send you my corrections and future ideas, in particular my investigations into anti-matter. On the other hand I would hate to disturb you or bore you and I will certainly not be offended if you don't want to read any more.

I use extensively the term "event" to concord with the idea of an event horizon, and the word history in memory of Feynman who introduced the concept of light being the some of all the possible paths to its source, he called this the sum of the histories.

As you know I got married this year and am infinitely happy. I wish all the best and would love to meet you both again.

Many best wishess

Stephen.

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