

Expansion **IS** Gravity



Gravity * Dark Matter * Dark Energy

From Light to Matter

The Aether * The Life Force

Russian Dolls * Enfolded Dimensions

The Sentient Universe

Our Eternal Legacy

Untested novel speculations – do **not** include in your exam answers.

Before space-time, a phrase which is a logical contradiction, there was No-thing. no universe, no energy, no material, no phenomena, no boundary - nothing.

Without reason or known cause,
other than Richard Dawkin's and Stephen Hawking's capricious gods,
physicists believe and mathematicians calculate
that an energetic singularity, a dimensionless point, a white-hole, appeared
in this inexplicable, indescribable, non-existent no-place and no-time.



Until the location of the white-hole is known, as nothing is knowable about the pre-existent No-thing, there might be many white-holes pouring infinite energy into the universe. But, unless Fred Hoyle resurrects and retracts his recantation, the scientific consensus is that just one singular white-hole existed or exists.

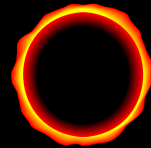
This singularity is the opposite to a black-hole that draws everything in.

- It is a white-hole -

from which everything flows outwards. It is the seed of the Big-Bang.

The white-hole-singularity exists, or stands out, in No-thing.

Space-Time does not yet exist. There is no universe.

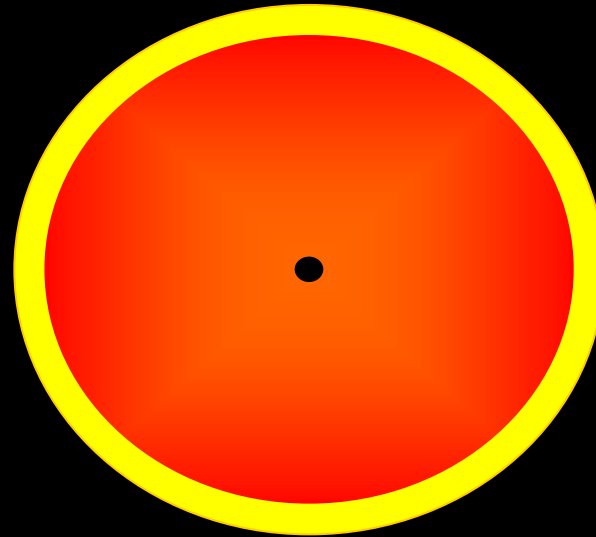


**This fabulous seed contains the potential energy,
information and organisation
for all phenomena, in all space, for all time;
including every human birth, life and death.**

**The universe gives birth to intelligence, which
infers sentience, which in turn infers communication,
within the stuff of this seed.**

Energy explodes from the white-hole into the No-thing – THE BIG BANG!

The universe begins. The universe exists within a boundary.
Inside the boundary there is energy. Outside the boundary there is No-thing.
Inside and Outside are indefinable dimensions.

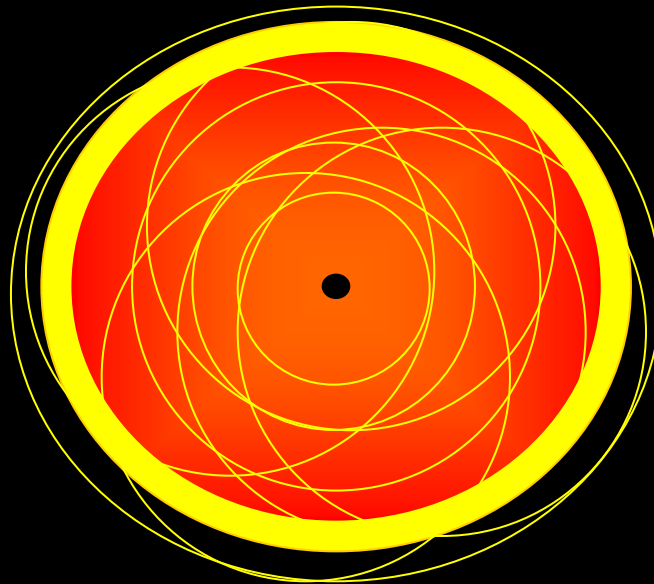


EIG 5 of 23 In the beginning was darkness and heat.

13.75 billion years ago - energy exploded from the white-hole into the No-thing.

THE BIG BANG!

There is no external resistance to the expansion of the energy.

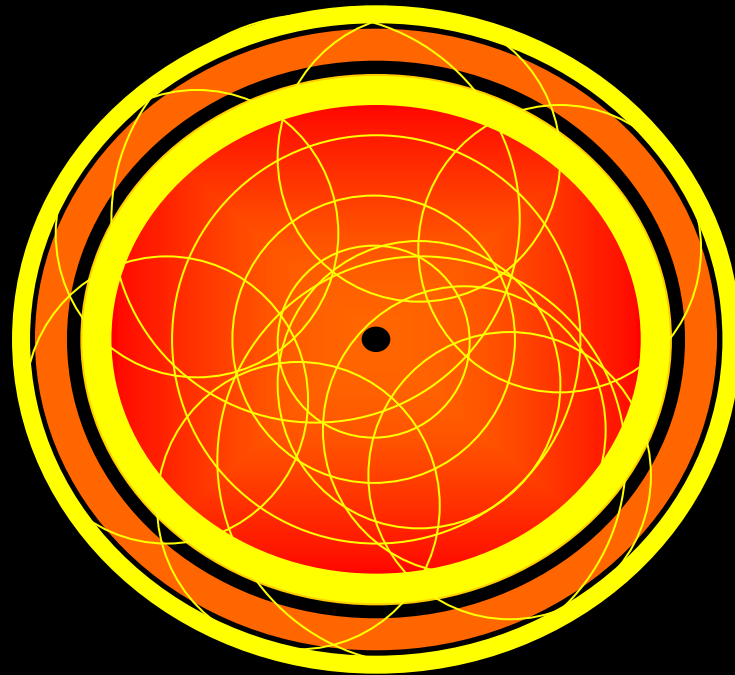


**The energy is light. It is very energetic – trillions of degrees Kelvin.
It is invisible, as no matter exists to reflect the light.
And there are no observers to see the light.**

EIG 6 of 23 In the beginning was darkness and a field.

Hubble expansion of the primordial energy meets no external resistance, but the expansion attenuates the energy, which resists annihilation, resists infinite scattering into the No-thing, as an integrated coherent field.

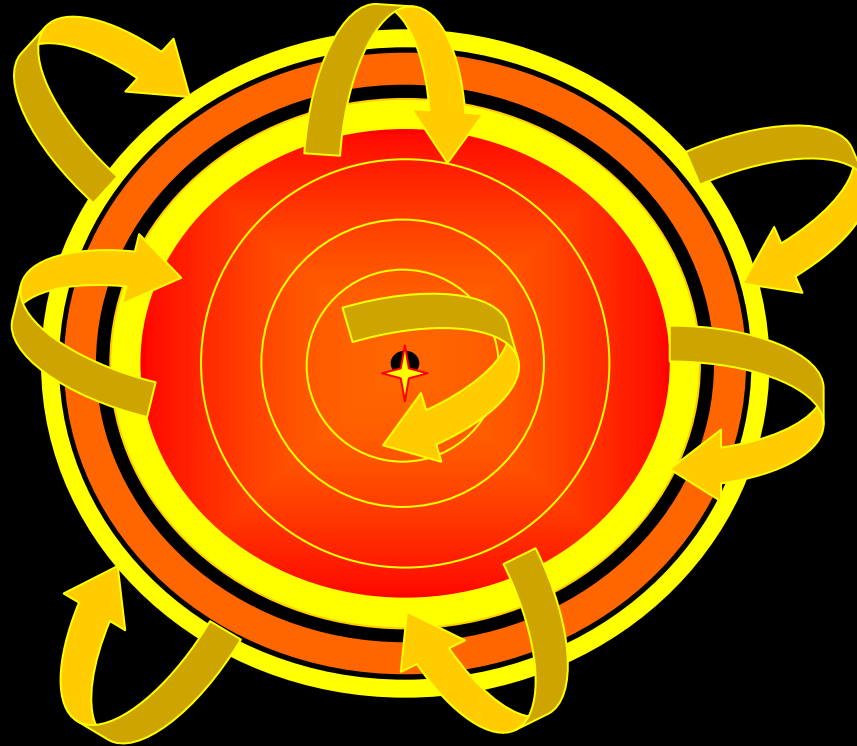
The cohering field forces portend sentience in this universe, which will, after a time, give rise to human intelligence – which might one day lead to reason.



**It is still very, very hot. It is still utterly dark
as no particles exist to reflect the light.**

EIG 7 of 23 In the beginning was darkness and Quanta.

Hubble expansion continues. There were two short periods of hyper-inflation. This new idea, EIG, is that as the field flows outwards, its internal cohesion, its field forces, acted and still act as a brake on infinite acceleration, as attenuation of the hot, dense field creates momentary...



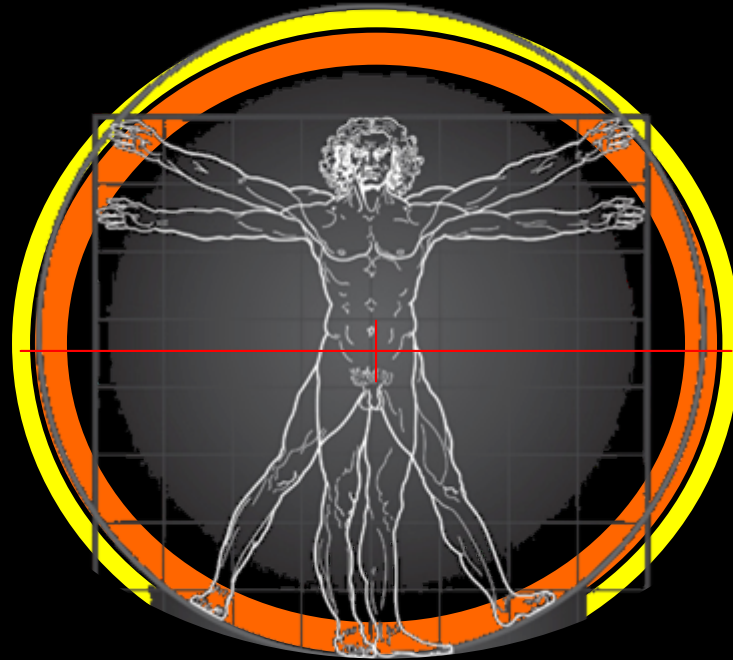
...regions of less density - partial vacuums - which attract energy, creating a pulse and restricting the rate of expansion to light-speed, C , 300,000 km per second.

This expand-then-fill pulse, quantises the universe.

EIG 8 of 23 Let there be light!

At every scale, immense to minuscule, Hubble expansion continues, today observable space-time expands at $6.819\text{E-}19$ percent per second.

(If the diameter of the observable universe is 43.7 billion light years as recently calculated – or based on the age of the universe, 13.75 billion light years, then at $2.304\text{E-}18$ percent per second)



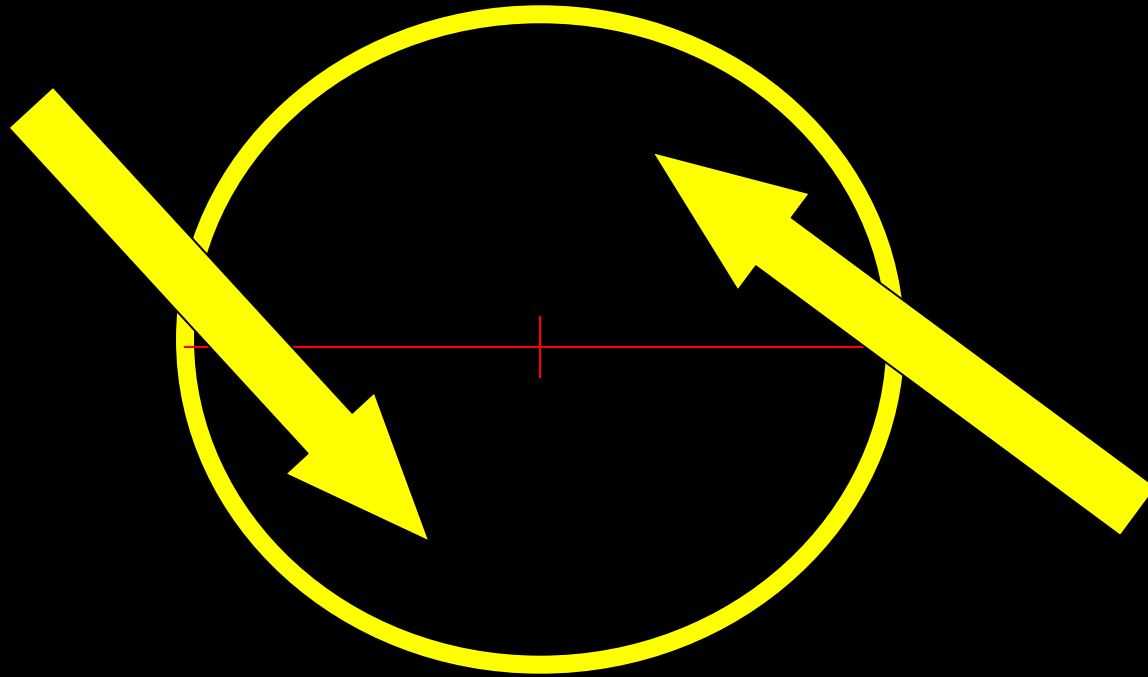
A sphere expanding at $6.819\text{E-}19$ % per second from a man-sized diameter of 2 metres.

In one second it increases the volume of the sphere and attenuates the energy in the sphere by (4.19 cubic metres X $6.8\text{E-}19\%$) or a tiny $2.8\text{E-}20$ cubic metres.

EIG 9 of 23 Let there be light and vacuums!

At every scale, immense to minuscule, Hubble expansion continues.

Today, Hubble expands space-time at $6.819\text{E-}19$ percent per second.

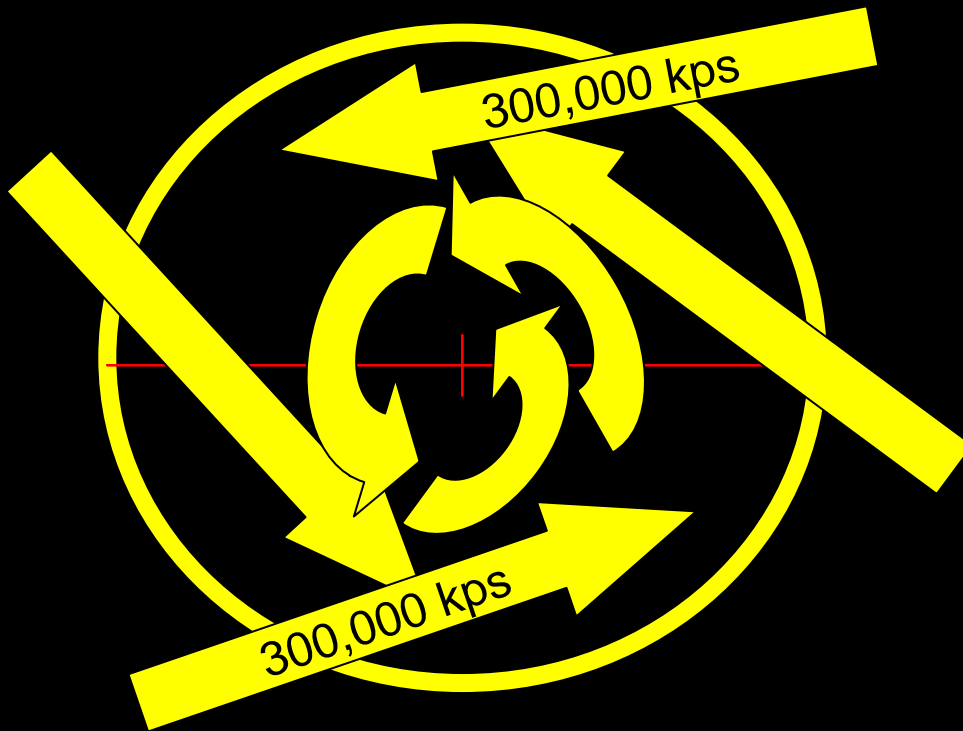


A minuscule sphere expanding at $6.819\text{E-}19$ % per second.

In one second it increases the volume and attenuates the energy in the sphere.

The surrounding energy field, light, rushes in to balance the field; at the speed of light.

In some instances, as light moves into an attenuated, partial vacuum region, waves collide at angles that create spin, making a vortex. Expansion is continuous, drawing in more energy. The spin increases, winding energy into matter – a primary-particle, a fractal, perhaps a quark, is born.



The primary vortex-particle, is a product of 3 vacuums or attenuated fields.

- (1), The arching back as the primordial energy explodes into the No-Thing and attenuates.
- (2) The field attenuation from constant Hubble expansion, as above.
- (3) The spinning vortex draws in energy to its rotating surface, whose speed creates a material surface.

As in a tornado, immediately beyond the surface is a region of low-pressure.

EIG 11 of 23 Let there be light! - Vacuum Power.

As particles/fractals precipitate or emerge from the energy-field, each fractal concentrates volumes of light, ($E=MC^2$), depleting the energy field, reducing it's cohering forces. This allows acceleration of Hubble Expansion. The more matter is formed, the less dense the energy-field, then the faster space-time expands.

This letting-go is **Dark Energy**. It is everywhere, on every scale.



Dark Matter is Hubble Expansion, from the original Big Bang, everywhere at every scale, causing the field to attenuate; to partially evacuate, which causes a constant in-falling of light energy, onto a multitude of attenuating spheres - which is **Gravity**.

As trillions of particles/fractals come into existence, and combine, creating matter; the primordial expanding hot plasma clears and light reflects from objects. The universe gives birth to visible **light**, and to darkness within matter.

Light does not travel - it **propagates**. A source energises waves which energise contingent, **in-situ** fractals or “pre-photons” – ad infinitum. As in telephone & power cables where **in-situ** electrons are excited by a carrier-wave that travels IN & OUTSIDE the cable. An energetic event causes an electro-magnetic (light) impulse; which propagates as a sphere through the **Aether** (*next slides*). Photons can be observed at ANY point in and on the sphere – as the energy intersects with the Aether; even if the energy is only equivalent to a “single” photon. Observed photons on one side of the sphere propagate at **C** from the centre as do those on the other side – they are “moving apart” at **2C**, - Einstein’s “**Spooky action at a distance**”.

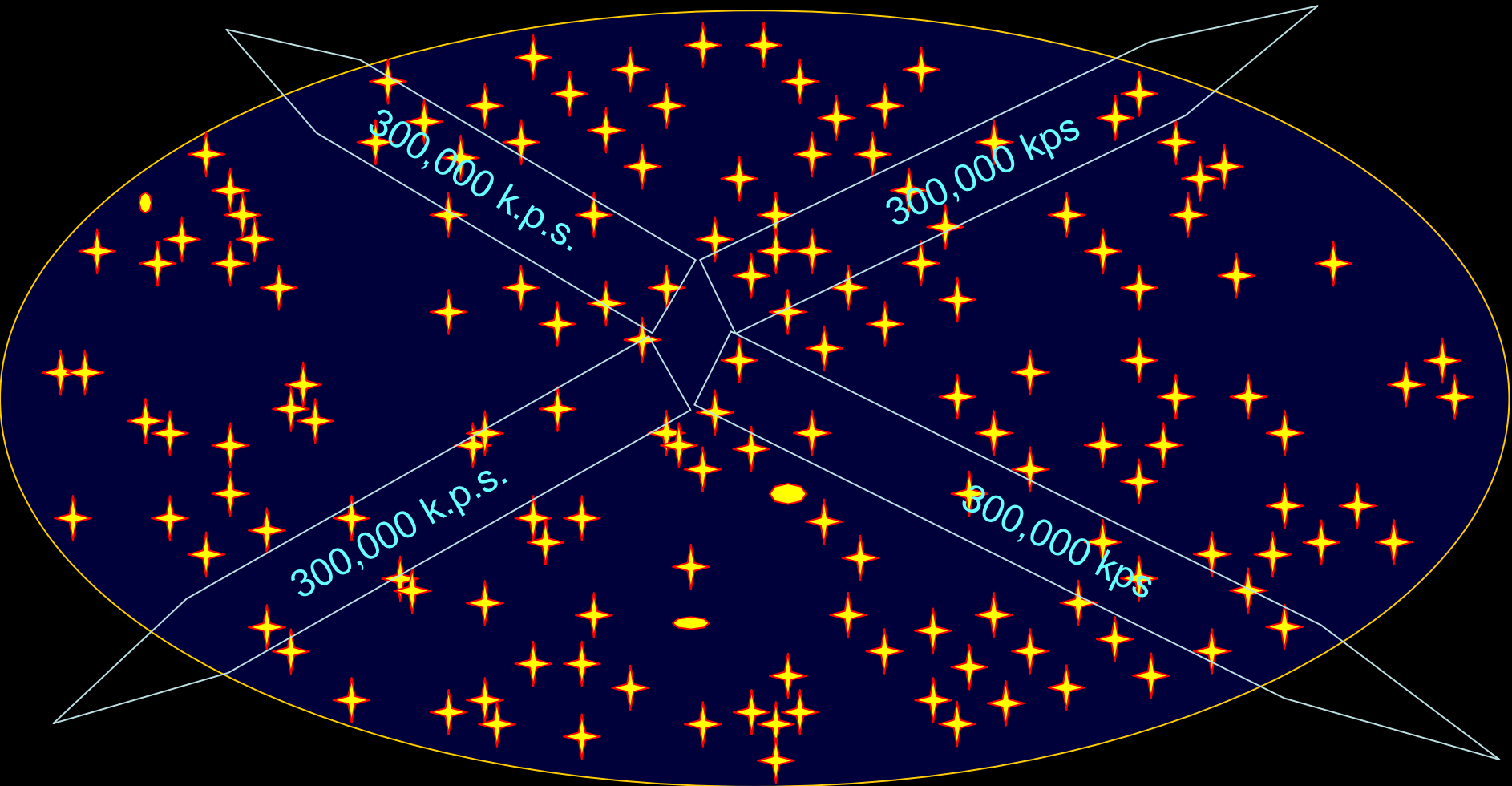
Propagation affects the double-slit “wavicles” demonstration.

HOW do signals remain coherent across Light-Years?

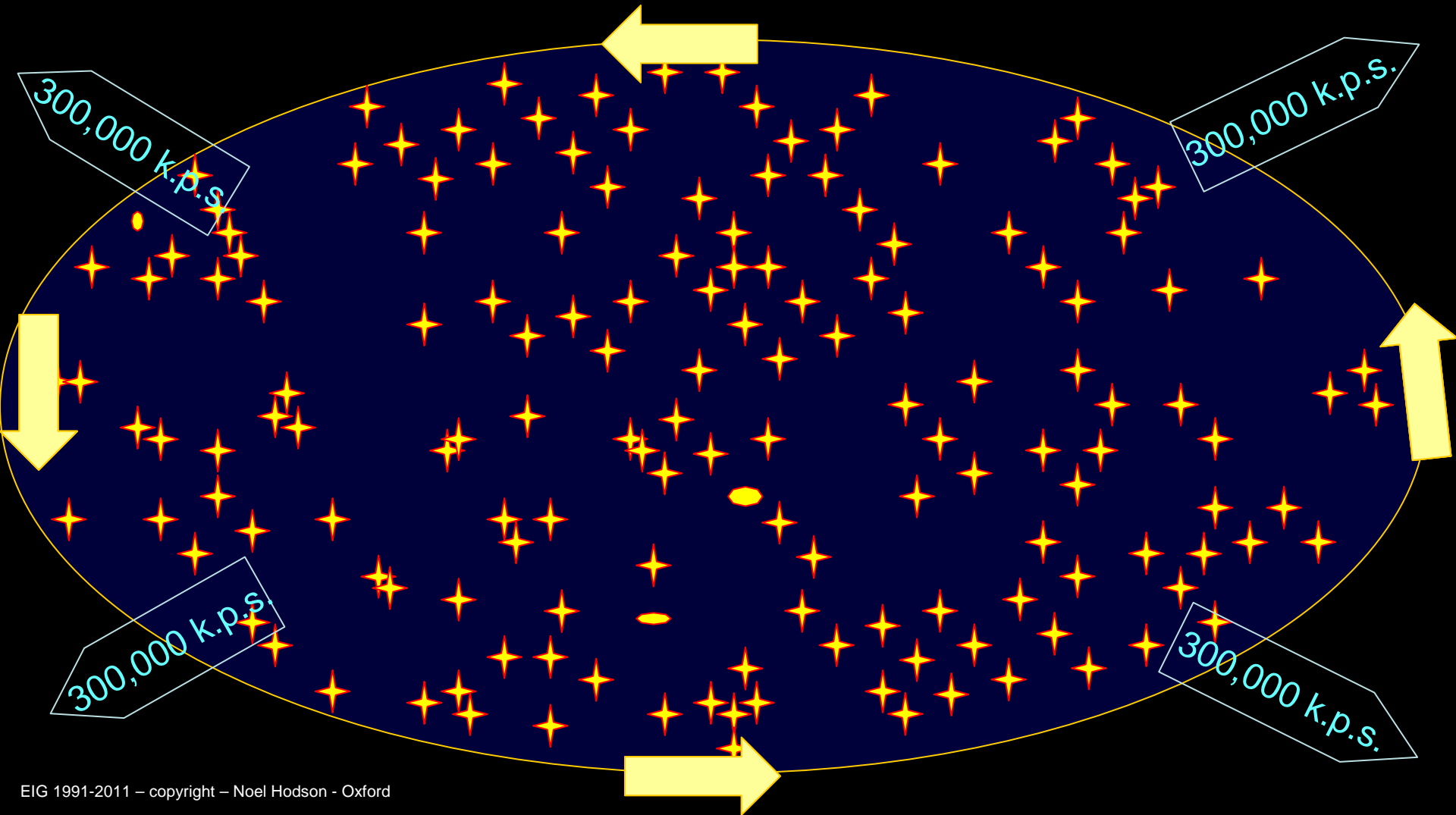
C is the symbol for light-speed 300,000 km a second.

EIG 13 of 23 The Universe – One Turn

The primordial fractals spin. Initially chaotic, the fractals align. Their spinning surfaces repel each other while their surface partial-vacuums attract. This dynamic is the underlying **Inertia** of the universe. Hubble expansion continues.



The spinning fractals are identifiable but not separate from the field, in which they exist. They are both of the field and are particles. Everything revolves, at diverse rates.



**Empty space does not exist.
Space-Time is not No-thing, it is Some-thing.**

**It is the energy-field.
The spinning fractals are continuously created by
collisions of light,
filling the evacuation (partial vacuums)
caused by expansion.**

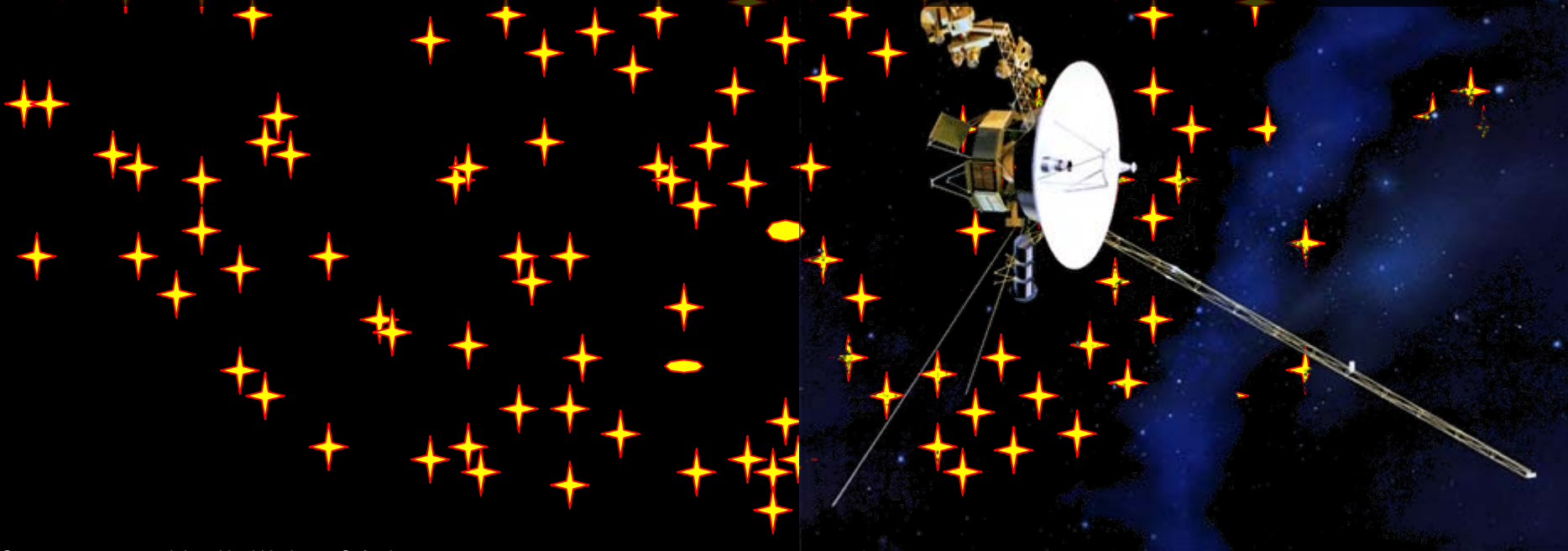
**Unless they join with others to form particles,
the invisible fractals unwind and merge with universal energy.**

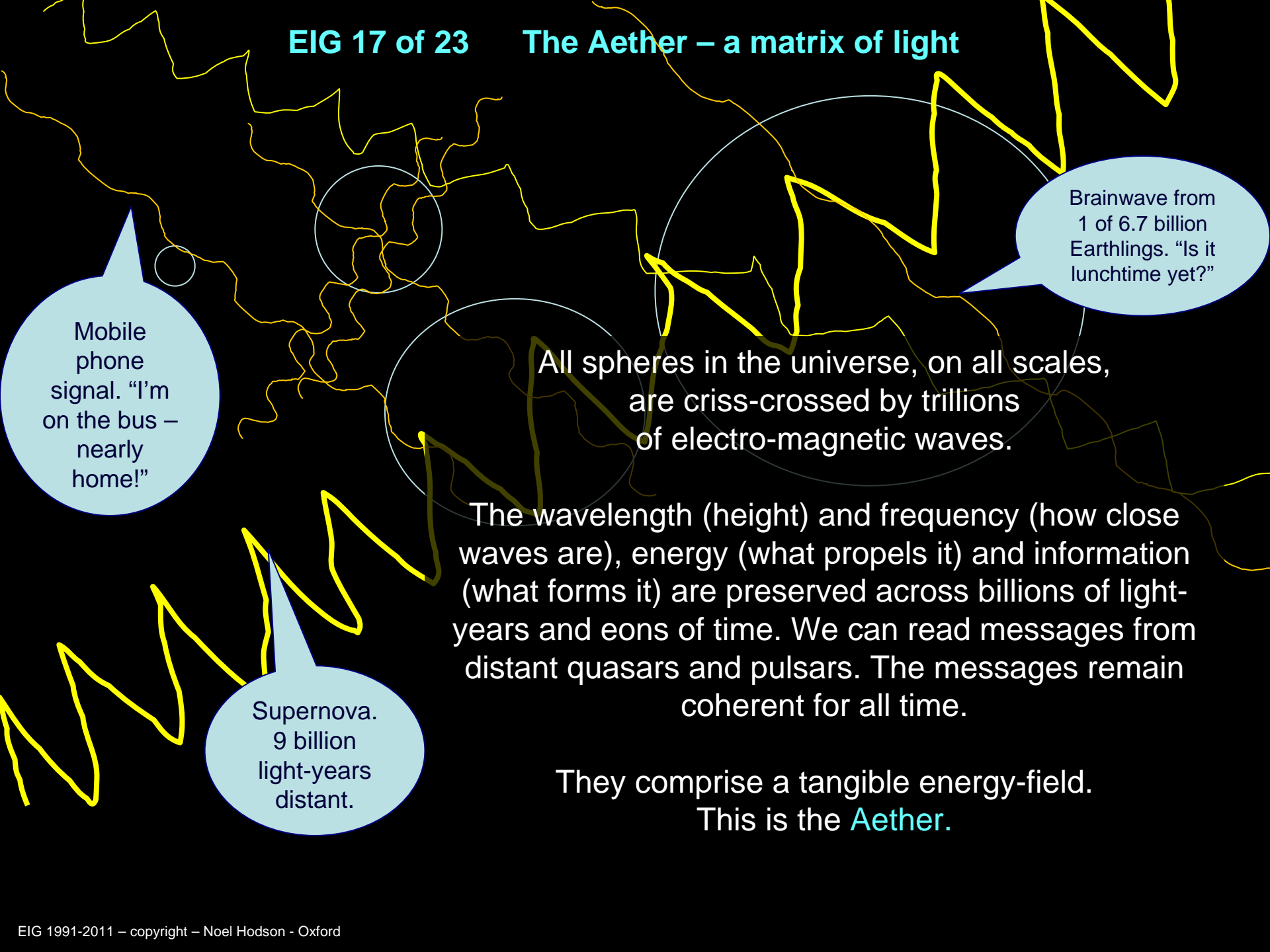
EIG 16 of 23 “Empty” Space – The Aether

“Empty” space does not exist. Place an eye anywhere in the universe and it sees the whole universe – slightly but uniquely different from each location – except wave-lengths too long to fit the observing orb.

Every sphere on every scale “sees” the entire universe, as each sphere is criss-crossed by electro-magnetic waves and particles from all phenomena.

The spheres constitute the universal Aether. How a signal retains it’s identity as it crosses the Aether, to our telescopes – is a scientific mystery. For example, the extremely weak radio signals from 30 years old Voyager 1 & 2, now leaving our solar-system.





Mobile phone signal. "I'm on the bus – nearly home!"

Supernova.
9 billion
light-years
distant.

All spheres in the universe, on all scales, are criss-crossed by trillions of electro-magnetic waves.

The wavelength (height) and frequency (how close waves are), energy (what propels it) and information (what forms it) are preserved across billions of light-years and eons of time. We can read messages from distant quasars and pulsars. The messages remain coherent for all time.

They comprise a tangible energy-field.
This is the **Aether**.

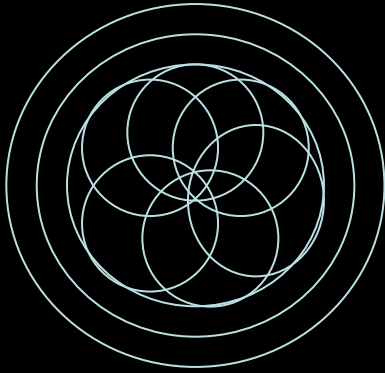
Brainwave from 1 of 6.7 billion Earthlings. "Is it lunchtime yet?"

Wherever an eye or observer is located in space-time, it sees the whole universe. With precise instruments, every signal from every mobile phone is legible. Human brains emit more powerful signals than do mobile phones. An observing sphere will not detect wavelengths wider than its diameter.

The signals criss-cross to form an electro-magnetic matrix – the matrix is the Aether – the stuff of the universe, which is informed and reformed each moment by every signal.



EIG 19 of 23 Casimir's Glue – and Complex Expansion



(The vacuum arithmetic is complex. Reducing it to just one expanding sphere:- it's attenuation draws energy from it's surrounding larger sphere, which being larger, attenuates less:- drawing Energy from it's surrounding sphere etc. The attenuation or vacuum force diminishes with distance – meanwhile, internal small spheres are expanding.)

Every sphere contains an image (light waves) of the whole universe.
Every smaller sphere within larger spheres “sees” the same image.
Every larger sphere surrounding the spheres sees the same image.
All the images/holograms are slightly differently sized, angled and accommodate different wavelengths – each is unique. The largest sphere is the universe.

Minuscule spheres cannot contain large wavelengths – there is more light-pressure outside smaller spheres than inside (Casimir).

This “Casimir-Glue” also underpins universal **Inertia** (see slide 13).

The sphere's expand at the Hubble Rate, which EIG calculates as $6.819E-19$ percent per second.

(i.e. circumference of the observable universe disappearing at light-speed).

Hubble Expansion attenuates the Aether or Energy Field.

Beyond price – the most complex thing in the known universe

We search for alien life – and hope aliens will be at least as intelligent as we are.

We highly value the complex human brain; an astonishing product of the **Life-Force**.

We try to find or manufacture super-intelligence, but only the human brain, with its 10^{11} neurons and 10^{14} synapses, - as Douglas Adams tells us -

...can make a decent cup of tea.



The organising **LIFE-FORCE** – the dynamic patterns of all phenomena – is a primary, self-evident, ubiquitous, physical, universal force, which (I think) ranks with Gravity, the Electromagnetic, Weak & Strong Nuclear forces; not as a second-tier product of those 4 forces. It might become possible to rank and relate these 5 forces using the concepts in these slides.



Infinite Implicate Dimensions.

Looking back:- Your mother carried you as a seed, from the time of her birth until your birth. Her mother, your grandmother, carried your mother as a seed. Her mother, your great-grandmother, carried your grandmother as a seed. This is scientific fact; implicit in the Long Body, back to the first life forms. Our body patterns come from inherited DNA - modified by the ever-changing electro-magnetic field of the Aether.

Do these enfolded multi-dimensions - a seed within a seed within a seed – emerge in the Many-Universes and String-Theory calculations?

Looking forwards:- Where next might your implicit enfolded life-force be manifest? Can instruments track your energy when you quit your present form? Will another seed or energy-field accommodate you?

EIG 22 of 23 Perpetual Presence – Informing the Universe

Creatures of Light : People are electrical generators of 10 to 75 watts (1AA battery = 5 watts).



Every motion creates a magnetic field – which creates an electric current, which creates a magnetic field, which creates an electric current - ad infinitum. These waves broadcast into the Aether - every thought and action. We all broadcast and receive all these signals at all times.

Our electro-magnetic records are perpetual. They in-form and re-form the Aether. We are matter and light waves. Like the photons that make us – People are Wavicles.

All phenomena broadcast. The more integrated the source – the stronger the signals; which do not die and, like star-light from the edges of the observable universe, they retain identity.

(NB – power of coherent intelligent groups; *Simile: harmonious choirs*).

EIG 23 of 22 LIFE-FORCE AND THE AETHER-MATRIX IN CONCLUSION.

It seems inarguable (to me) that space-time is a matrix of light in a holographic universe. The Aether-Matrix is continuously informed and reformed by all changes in all phenomena, by legible, broadcast electro-magnetic signals.

We do not know where the coherent patterns of phenomenal existence reside, which govern the growth of galaxies, seeds and DNA. It is probable that such fundamental, universal patterns are recorded and held in the Aether-Matrix.

Living creatures and all dynamic things broadcast signals, which in-form and re-form the Aether-Matrix. If so, then the material universe, embedded in the energetic universe, alters the patterns of energy, which in turn produce phenomena – and humans – from those energy patterns. We may indeed reap what we sow.

We exist in a dynamic feed-back system of patterned energy, which our thoughts and actions change and which in turn changes us, instantaneously and continually. Our personal broadcasts persist in the Aether-Matrix “Until the end of Days.”

END

The details behind these scientifically heretical speculations are at
http://www.noelhodson.com/index_files/universal_model_v7_nov02.htm

Email: noel@noelhodson.com