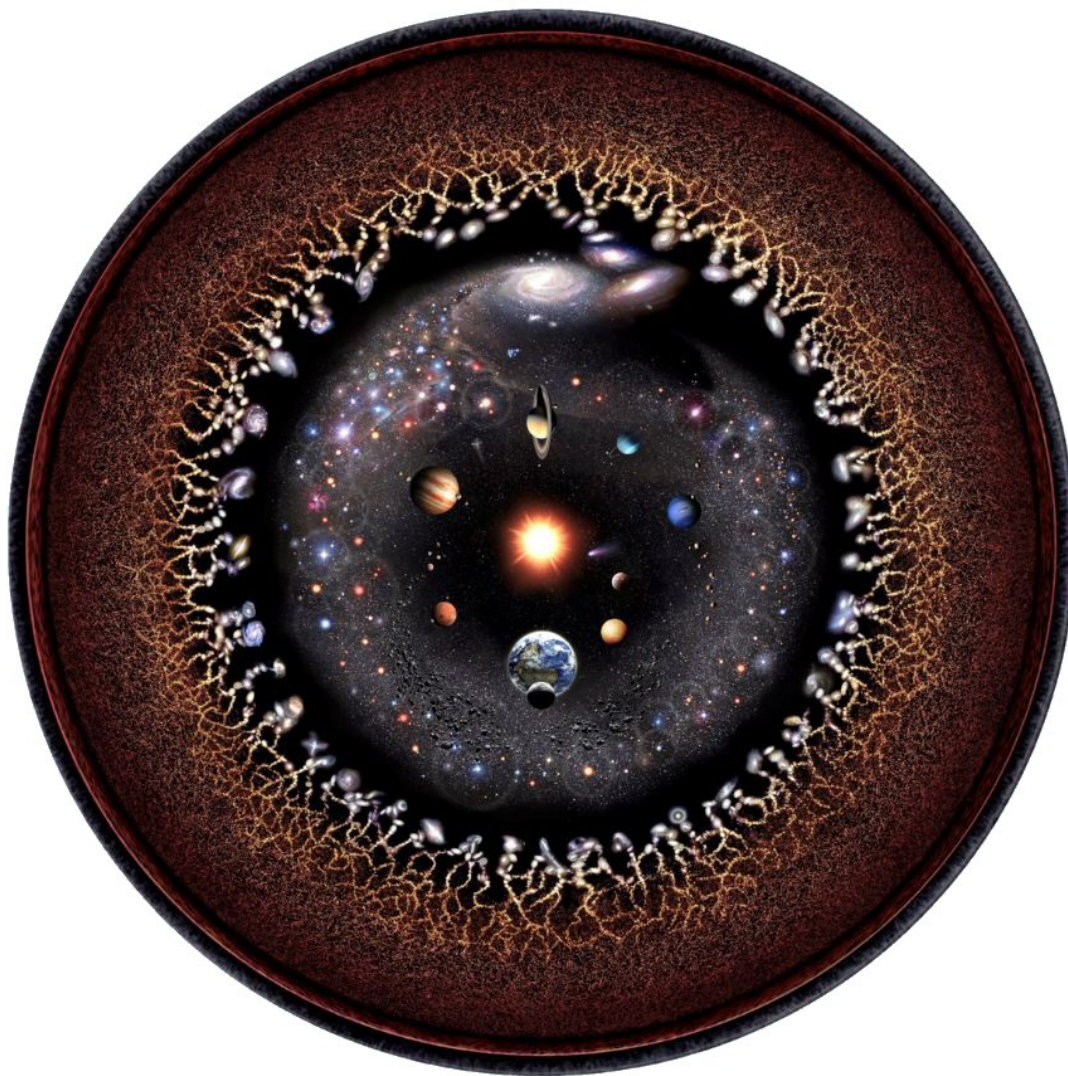


# Five profound realisations

*From my book **A (nother) Theory of Light***

*by Dipl. Ing. Horst H. Gruhle*



# Five profound realisations

*The "lite on math" version.*

*by Dipl. Ing. Horst H. Gruhle*

*... risen out of a sea of true randomness,  
we are the embodiment of probability,  
being in-formation only, but  
free willed, we are still  
just ripples in space ...*

*hhg 7 Sep 2021*

**Dedicated to the Free World**

Published by Horst H. Gruhle

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## 1.0 The five (or more) most profound realisations.

After having spend several years looking into the nature of photons and electrons, culminating in the release of my book *A (nother) Theory of Light* and now reflecting on it all, I have come to the realisation that there are some profound insights worthy of being "*distilled*" from the knowledge gained during this time of exploration ...

I will list them in the (approximate) order of "*appearance*" :

Our world (*our* space and *our* time) is essentially *electro-magnetic* in nature (em-space).

We are "*made*" of energy, *we are energy ripples* within this electro-magnetic em-space.

(*our*) Time is the speed at which processes in *our* universe (space) unfold.

Being electro-magnetic ripples only, we are "*living*" in a *Information Universe* and *we are information* that has become self aware (natural intelligence or *NI* ).

Information in the Information Universe can vary in complexity, from simple (i.e. electron) to more advanced (i.e. life itself) and this is ultimately represented in a *Information Hierarchy* of increasing complexity.

Being able to accumulate (store) and pass on information (knowledge, culture) puts us humans at the top of this information hierarchy.

This information hierarchy is virtually *unlimited in complexity* and it allows for other entities (more than one) above humans, to exist (i.e. a higher conscious, god, other).

It would be conceivable for several "*versions*" of em-space to be *superimposed* and this would allow for the existence of many *parallel worlds* independent of each other.

And further :

There are two kinds of space: The (relative) em-space we experience and the ur-space from where we inherit actual space, actual time and energy.

Our em-space is elastic (ripples) and it *varies in density* (curved space).

Gravity is a function of the electro-magnetic *space density gradient* of this curved space.

Curved space is also fundamental to the creation of particles (electrons, positrons etc.).

Our em-space is *quantised*, leading to the formation of a *quantisation barrier* which ultimately contains energy ripples within a certain volume of space (photon, electron etc.).

Even Einstein had to concede that there is more to (our) space than just "empty-ness" :

*"...we may say that according to the general theory of relativity, space is endowed with physical qualities. In this sense, therefore, there exists an ether. According to the general theory of relativity, space without ether is unthinkable; for in such space there ... would be **no propagation of light** ...*

*But this ether may not be thought of as endowed with the quality characteristic of ponderable media, as consisting of parts which may be tracked through time.*

*The idea of motion may not be applied to it ..."*

Albert Einstein,  
ETHER AND THE THEORY OF RELATIVITY,  
May 5th, 1920, University of Leyden.

RIP Albert.

**And further :**

Inertia and gravity are fundamentally two different things (!)  
Mass (energy) is implicated in **inertia** (dynamic) and **gravity** (static).

Inertia is a result of the interaction between photonic energy (i.e. electrons) and the electro-magnetic em-space. There is **no** inertia that inherently sits within a moving object. We are all **surfers in space**.

Acceleration increases (electro-magnetic) energy ... hence it increases mass.  
Mass inertia (i.e. electron) is coupled to em-space via induction.

Mass (m) is energy and energy (E) is mass.

$$m = E * (\epsilon_0 * \mu_0)$$

There are two basic types of energy ripples: Photonic energy (photons, electrons etc.) and non-photonic energy ripples (i.e. radio waves emitted from an antenna).

The electron, the positron and the photon, are ultimately the key to understanding the universe, together with the realisation that all particles are in essence electro-magnetic phenomena that interact with each other accordingly... as indicated in the following chart:

