

Life Energy and Syntropy

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The energy-mass relation:

$$E = mc^2$$

that we all associate with Einstein, was first published by Oliver Heaviside in 1890², then by Henri Poincaré in 1900³ and by Olinto De Pretto in 1904⁴. Olinto De Pretto presented it at the *Reale Istituto Veneto di Scienze* in an essay with a preface by the astronomer and senator Giovanni Schiaparelli.

It seems that this equation reached Einstein through his father Hermann who was responsible for the lighting systems in Verona and who, as director of the “*Privilegiata Impresa Elettrica Einstein*”, had frequent contacts with the Fonderia De Pretto that produced the turbines for electricity.

However, the $E=mc^2$ does not take into account the momentum, which is also a form of energy and in 1905 Einstein added the momentum (p) obtaining the energy-momentum-mass equation:

$$E^2 = m^2 c^4 + p^2 c^2$$

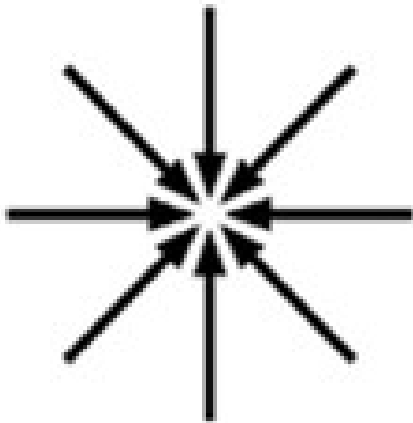
Since energy is squared (E^2) and in the momentum (p) there is time a square root is used and there are two solutions: negative time energy and positive time energy.

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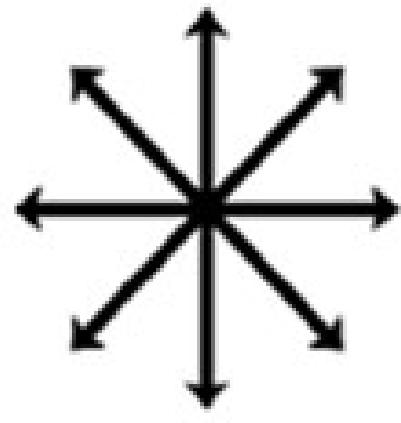
²Auffray J.P., *Dual origin of $E=mc^2$* :<http://arxiv.org/pdf/physics/0608289.pdf>

³Poincaré H., *Arch. néerland. sci.* 2, 5, 252-278 (1900).

⁴De Pretto O., *Lettere ed Arti*, LXIII, II, 439-500 (1904), Reale Istituto Veneto di Scienze.



E^{-t} , negative time energy,
manifests as converging energy



E^{+t} , positive time energy,
manifests as diverging energy

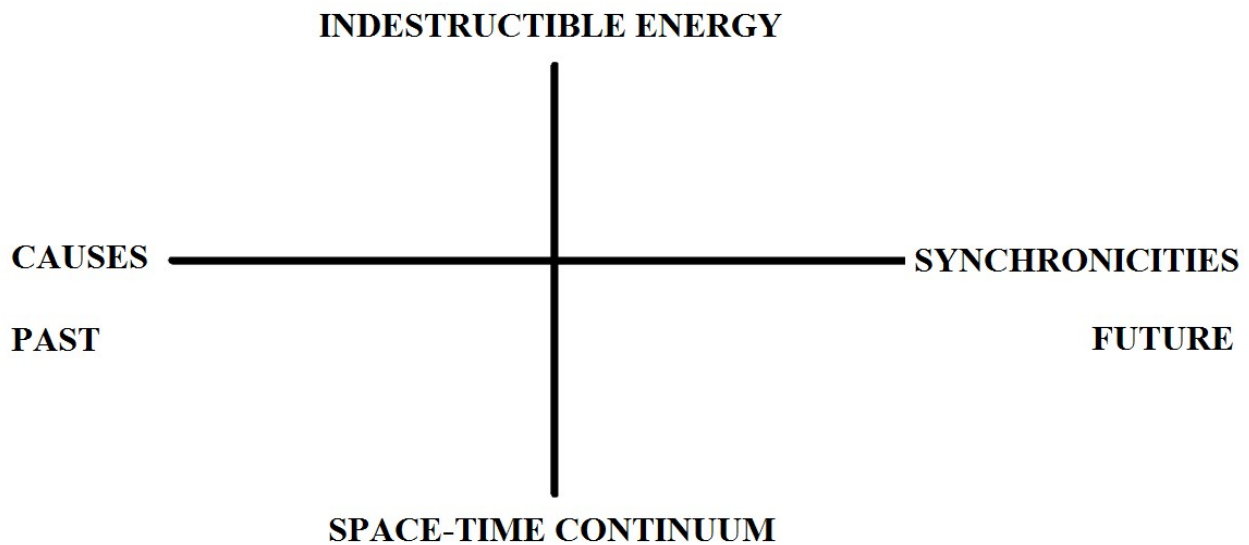
Positive time energy implies causality, whereas negative time energy implies retrocausality: the future that acts back into the past. This was considered impossible and to solve this paradox Einstein removed the momentum, given the fact that it is practically equal to zero compared to the speed of light (c). In this way, he returned to the famous $E=mc^2$.

However, in 1924 the spin of the electron was discovered. The spin is an angular momentum, a rotation of the electron on itself at a speed close to that of light. Since this speed is very fast, the momentum cannot be considered equal to zero and in quantum mechanics the energy-momentum-mass equation must be used with its uncomfortable dual time solution.

The first equation that combined relativity and quantum mechanics was formulated in 1926 by Oskar Klein and Walter Gordon and has two-time solutions: advanced and delayed waves. Advanced waves were rejected, since they imply retrocausality which was considered impossible.

The second equation, formulated in 1928 by Paul Dirac, also has two-time solutions: electrons and neg-electrons (now called positron). The existence of positrons was proved in 1932 by Carl Andersen.

Shortly after Wolfgang Pauli and Carl Gustav Jung formulated the theory of synchronicities. Starting from the dual time solution they came to the conclusion that reality is supercausal, with causes acting from the past and synchronicities acting from the future.



In 1933 Heisenberg, who had a strong charismatic personality and a leading position in the institutions and academia, declared the backward in time solution impossible. From that moment, anyone who ventures into the study of the backward in time solution is discredited, loses the academic position, the ability to publish and to talk at conferences.

Luigi Fantappiè studied pure mathematics at the Normale di Pisa, the most exclusive Italian University, where he had been classmate of Enrico Fermi. He was well known and appreciated among physicists to the point that in 1951 Oppenheimer invited him to become a member of the exclusive Institute for Advanced Study in Princeton and work directly with Einstein.

As a mathematician Fantappiè could not accept that Heisenberg had rejected half of the solutions of the fundamental equations and in 1941, while listing the properties of the forward and backward in time energy, Fantappiè discovered that the forward in time energy is governed by the law of *entropy*, whereas the backward in time energy is governed by a complementary law that he named *syntropy*, combining the Greek words *syn* which means converging and *tropos* which means tendency.

Entropy is the tendency towards energy dissipation, the famous second law of thermodynamics, also known as the law of heat death. On the contrary, syntropy is the tendency towards energy concentration, increase in differentiation, complexity and structures. These are the mysterious properties of life! The backward in time energy solution describes *life energy*, whereas the forward in time energy solution describes *physical energy*. In 1944 Fantappiè published the book “*Principi di una Teoria Unitaria del Mondo Fisico e Biologico*” (Unitary Theory of the Physical and Biological World) in which

he suggested that the physical-material world is governed by entropy and causality, while the biological world is governed by syntropy and retrocausality.⁵

We cannot see the future and therefore retrocausality is invisible! The dual energy solution suggests the presence of a visible reality (causal and entropic) and an invisible reality (retrocausal and syntropic). An example is provided by gravity. We continually experience gravity, but we cannot see it. According to the dual time energy solution gravity is a force that diverges backwards in time and, for us moving forward in time, is a converging force. The fact that gravity is invisible is known to all, but that it diverges from the future is known to few.

Can we prove it?

Yes, and it's quite simple. If gravity propagates from the future its speed must exceed that of light. Tom van Flandern (1940-2009), an American astronomer specialized in celestial mechanics, developed a series of procedures to measure the speed of gravity propagation^{6,7,8}.

In the case of light, which has a constant speed of about 300,000 kilometers per second, we observe the phenomenon of aberration. Sunlight takes about 500 seconds to reach the Earth. So, when it arrives, we see the Sun in the sky position it occupied 500 seconds before. This difference is equivalent to about 20 seconds of arc, a large amount for astronomers. Sunlight strikes the Earth from a slightly shifted angle and this shift is called aberration.

If the speed of gravity propagation were limited, one would expect to observe aberration in gravity measurements. Gravity should be maximum in the position occupied by the Sun when gravity left the Sun. Instead, observations indicate that there is no detectable delay in the propagation of gravity from the Sun to the Earth. The direction of the gravitational attraction of the Sun is exactly towards the position in which the Sun is, not towards a previous position, and this shows that the speed of propagation of gravity is infinite.

Instant propagation of gravity can only be explained if we accept that gravity is a force that diverges backwards in time, a physical manifestation of syntropy.

⁵ Fantappiè L., *Principi di una teoria unitaria del mondo fisico e biologico*. Humanitas Nova, Roma 1944.

⁶ Van Flander T. (1996), *Possible New Properties of Gravity*, Astrophysics and Space Science 244:249-261.

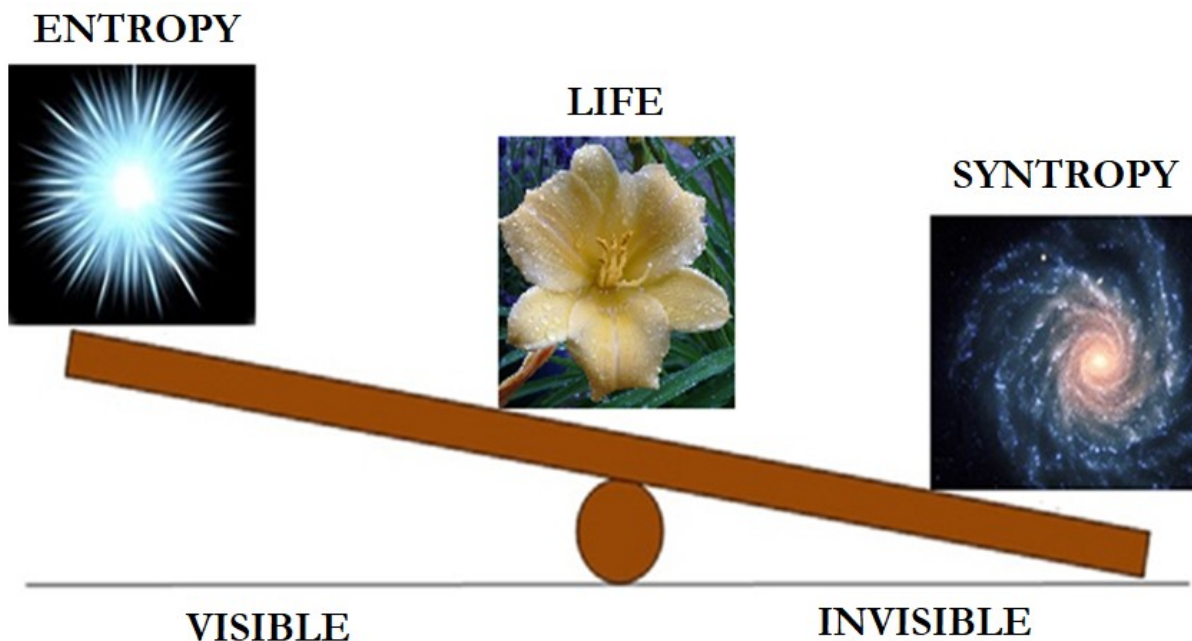
⁷ Van Flander T. (1998), *The Speed of Gravity What the Experiments Say*, Physics Letters A 250:1-11.

⁸ Van Flandern T. and Vigier J.P. (1999), *The Speed of Gravity – Repeal of the Speed Limit*, Foundations of Physics 32:1031-1068.

The first law of thermodynamics states that energy is a unity that cannot be created or destroyed, but only transformed, and the energy-momentum-mass equation shows that this unity has two components: entropy and syntropy. We can therefore write:

$$1 = Entropy + Syntropy \quad Syntropy = 1 - Entropy$$

where syntropy is the complement of entropy! Life lies between these two components: one visible and the other invisible, one entropic and the other syntropic, and this can be portrayed using a seesaw.



Fantappiè failed to prove his theory, since the experimental method requires the manipulation of causes before observing their effects.

Recently, random event generators (REG) have become available. These systems allow to perform experiments in which causes are manipulated after their effects: in the future. The first experimental study on retrocausality, by Dean Radin of the ION (Institute of Noetic Sciences)⁹, measured heart rate, skin conductance and blood pressure in subjects who were presented with blank images for 5 seconds followed by images that, based on a random event generator, could be neutral or emotional. The

⁹ Radin DI (1997), *Unconscious perception of future emotions: An experiment in presentiment*, Journal of Scientific Exploration, 11(2): 163-180.

results showed a significant activation of the parameters of the autonomic nervous system, before the presentation of emotional images.

In 2003, Spottiswoode and May, of the Cognitive Science Laboratory, replicated this experiment by performing a series of controls to study possible artifacts and alternative explanations. The results confirmed those already obtained by Radin¹⁰. Similar results were obtained by other authors, such as McCraty, Atkinson and Bradley¹¹, Radin and Schlitz¹² and May, Paulinyi and Vassy¹³, always using the parameters of the autonomic nervous system.

Daryl Bem, psychologist and professor at the Cornell University, describes nine classic experiments conducted in the retrocausal mode in order to get the effects first rather than after the stimulus. For example, in a priming experiment, the subject is asked to judge whether the image is positive (pleasant) or negative (unpleasant) by pressing a button as quickly as possible. The reaction time is recorded.¹⁴

Just before the positive or negative image, a word is presented briefly, below the threshold so that it is not perceptible at a conscious level. This word is called “*prime*” and it has been observed that subjects tend to respond more quickly when the prime is congruent with the following image, whether it is a positive or negative image, while the reactions become slower when they are not congruent, for example when the word is positive while the image is negative.

In retro-priming experiments, the usual stimulus procedure takes place later, rather than before the subject responds, based on the hypothesis that this “inverse” procedure can retrocausally influence the answers. The experiments were conducted on more than a thousand subjects and showed retrocausal effects with statistical significance of a possibility on 134,000,000,000 of being mistaken when affirming the existence of the retrocausal effect.

¹⁰ Spottiswoode P (2003) and May E, *Skin Conductance Prestimulus Response: Analyses, Artifacts and a Pilot Study*, Journal of Scientific Exploration, 2003, 17(4): 617-641.

¹¹ McCraty R (2004), Atkinson M and Bradely RT, *Electrophysiological Evidence of Intuition: Part 1*, Journal of Alternative and Complementary Medicine; 2004, 10(1): 133-143.

¹² Radin DI (2005) and Schlitz MJ, *Gut feelings, intuition, and emotions: An exploratory study*, Journal of Alternative and Complementary Medicine, 2005, 11(4): 85-91.

¹³ May EC (2005), Paulinyi T and Vassy Z, *Anomalous Anticipatory Skin Conductance Response to Acoustic Stimuli: Experimental Results and Speculation about a Mechanism*, The Journal of Alternative and Complementary Medicine. August 2005, 11(4): 695-702.

¹⁴ Bem D (2011), *Feeling the future: Experimental evidence for anomalous retroactive influences on cognition and affect*, Journal of Personality and Social Psychology, Jan 31, 2011.

Final Remarks

Generally, we tend to overlook the invisible dimension as it is widely believed that it does not exist and that decisions should be based only on facts. This attitude has led people away from insights, inspirations, dreams and life-energy and has limited decision making only to the physical and entropic side of reality.

This has been very useful during the industrial revolution which has shaped Western culture and societies, but it is now dysfunctional.

Teilhard de Chardin noted that: *“Right now, as in Galileo’s days, what is most essential (...) is a new way of thinking, tied to a new way of acting.”*

The signs of extending science to a new supercausal paradigm which takes into account also the invisible life energy, can be seen a bit everywhere, but are still not welcomed. Teilhard was exiled in China and the Vatican banned the works of Teilhard from all the libraries since they *“offend the Catholic doctrine.”*

Fantappiè was censored. The following words of Francesco Severi, founder of the National Institute of Higher Mathematics of Rome, well describe this situation: *“About the problem of finality, I am very embarrassed to express an opinion on what someone very close to me calls the discovery of scientific finalism. Science ceases to be science when its results do not express causal results. It is possible to speak of finality in science, but only in a metaphysical sense, having no claim to prove anything positive about it. This is because: 1) it is not possible to deduct hypotheses from the fact that life is subject to final causes, 2) pure logic cannot be used as a scientific demonstration, 3) finality cannot be demonstrated using the experimental method, because no experiment can be established, without acting on the causes prior to the effects. Finalism, in short, is in my opinion an act of faith, not an act of science.”*

The situation is now changing. It is possible to conduct experiments which test and validate Fantappiè’s and Teilhard’s hypotheses and this allows to introduce retrocausality and life energy in science.