

# Prime Theory - a new theory of everything

*Author - Laurentiu Mihaescu, Updated - March 4, 2018*

**#theory\_of\_everything, #granular\_mechanics, #granular\_physics, #theory\_of\_the\_absolute**

**About:** Here is the summary of my work on the new theory of everything, **Prime Theory**. It all started back in 2012 or 2013 with a simple hypothesis that crossed my mind regarding the granular space, about its presumed mechanics, and this eventually led me to a whole new model that could simply explain everything. It is all about the fundamental mechanisms of matter at any scale, based on a paradigm-shifting idea that allowed me to dig deeper into the nature of things, reaching their real physical meanings. All these findings revealed new interpretations for mass, electric charge, gravity and fields in general, which allowed me to give new explanations for some well-known formulas, principles or laws of physics and to correct other ones. My related books and articles may be freely downloaded from these links (the pdf documents are chronologically listed and they all can be found on my website <http://www.1theory.com>):

1. **Prime Theory, book, 2014, 2015, Premium** <http://www.1theory.com/PrimeTheory.pdf>
2. **The Universe, book, 2015, 2016, Premium** <http://www.1theory.com/TheUniverse.pdf>
3. **Life, book, 2017,** <http://www.1theory.com/Life.pdf>
4. **Gravity, Ten articles, 2018,** <http://www.1theory.com/Gravity.pdf>

**Assumptions:** As I said before, the basic mechanism of our Universe, the one that controls everything and establishes all the other laws of matter, has to be extremely simple, working on very simple things. In this context I saw space as a kind of Newtonian framework, a given of this Universe, where the actual building blocks of everything - *the space granules* - are freely moving. These granules are extremely tiny spheres of perfect elasticity that move at a *constant absolute speed*, much higher than the speed of light. They are filling completely the empty space and they are also composing any material structure. Consequently, my theory is entirely based on this dual nature of space, seen as discrete matter and empty frame at the same time.

**Results:** These are a few conclusions I drew from this theory, along with some new interpretations:

- Any volume of space is crossed by the granular fluxes, and this thing transformed *space into a granular fluid* with some fundamental, special characteristics.
- The most important property of this fluid is determined by the linear propagation of fluxes, and the ensemble of fluxes crossing a certain point in space represents the intrinsic *gravitational field*. The gravitational field is the fundamental, primordial field of the universe, the generator of all the matter components - the elementary particles, providing their *stability* over time and being at the same time the cause and support for the propagation of all the other known fields.

- *Gravity*, as being the pull generated by the organized matter on material objects, is in fact a perturbation (attenuation) in the uniform distribution of the gravitational field that is produced by the presence of massive bodies.

- *Elementary particles* are in fact granular formations of discoidal shape, whose stability, symmetry and intrinsic precession movement are consequences of the special properties of space (its granules). They have certain dimensions, mass and their type of curvature (disc convexity) dictates their electric charge (as both amount and sign). No more point-like, unidentified things with mysterious charge, spin and so on, they are in fact complex structures of dense granular matter!

- The *anti-particles* of particles above are also granular formation, but of different convexity; they were born same way, randomly as shape, in the beginnings of the Universe. Quarks, as heavier particles, formed at that initial moment all the composite particles, while most of the lighter ones (of opposite charges) annihilated themselves.

- *Fields* (all but the gravitational one) are *distinct granular structures*, granular fluxes that travel through space at the speed of light. They are generated by the elementary particles in "contact" with the surrounding granular fluid, being temporarily granular formations with specific shape, density, divergence and dynamics; the convexity and the global/intrinsic movement of their emitting structures are determining all these particular features.

- The *electric charge* is, as mentioned before, a physical feature of the elementary particles that is due to their type of *curvature*, and as I know so far, this kind of interpretation *is the first one ever* in the history of the quantum physics!

- *Mass*, known as measure of inertia or as amount of stuff, is seen a little bit differently now (it still has the additivity feature, being regarded here at quantum level). As everything is governed by the laws of space, mass makes no exception; it is in fact a measure of the total granular impulse needed to be transferred to a particle within a certain time interval in order to get certain acceleration and speed values. Mass' physical interpretation is connected to a global change of the impulse direction among all the granules composing a particle, which could be considered as linearly evolving, and to the variation of the granular density that occurs when a particle accelerates in the uniform spatial medium. The second phenomenon is tied to the relativistic reflection of the granules in front of the particle (that moves at relativistic speed) and to their speed limit, which leads to a *global non-linear dependency of mass on the absolute speed*. Mass is the resistance faced by particles on the change of their speed, so it will also depend on the number of granules involved and on the structure's (absolute) rest mass. As any particle is always moving, this rest mass is in fact a dynamic quantity, where the relativistic precession is also involved for sure. There are differences at macroscopic level between the inertial mass and the gravitational one, all due to the propagation of fields inside the very dense stellar bodies.

- The *Relativity and its principles* are also consequences of the movement of matter in the uniform medium called space (that fixes the upper limit for the absolute speed and that increases the mass of the objects accelerating in various fields). As the absolute speed of an object gets closer to the relativistic zone, no matter how it moves in regard to other frames of references, its local time passes slower and its mass increases. A similar phenomenon happens when that object is located in a strong gravitational field, all its internal movements and oscillations are slowed down. In order to

evaluate correctly these changes, the absolute speeds of the material bodies have to be always known (Theory of the absolute).

- The *causality and determinism* characterizing our Universe are both embedded in its pure mechanical nature and in its uniformity, establishing this way a general, predictable rule of any interaction of matter and fields. They have origins in the Universe's born event, when the granular matter was created in a special and unique mode, its primordial and absolute features being maintained over time.

- *Time* is not a fundamental quantity, it derives from the movement of matter, whose rules and limits are actually imposed by the constant granular speed. At granular level, time is absolute; however, in different frames of reference, the usual, macroscopic time (the one we can actually measure) does not flow at the same rate, it dilates once the absolute speed of a material body gets to the relativistic range of speeds.

- The *supermassive black holes* have now new descriptions of their inner layers, which are very plausible to be made of pure granular matter in an extremely compressed form. I also have a new hypothesis regarding their existence within the distributed model of Universe's birth.

- *Photons* are no longer waves of electric and magnetic nature, but granular structures of a very special shape. Their wave - particle duality may be kept and the Maxwell's equations are all still valid in my granular interpretation (that even gave them mass as they are additional fluxes).

- *Energy* represents a main feature of the spatial granules, a primordial impulse of absolute nature that was evenly distributed over all directions in space; it is neither created nor lost when matter and different fields are interacting. I found that energy of any type, of any field or of any kind of matter *is in fact a particular granular structure*, which may have a constant or dynamic shape, being always a distinct group of granules that exceeds the average local density of space (additional granular fluxes or compact granular matter inside particles). This also justifies the energy-matter equivalence for any granular formation or pattern that may exist.

**Next projects:** I am interested in taking more steps on the path opened by this theory: a few experiments to prove some important parts of it, several computer programs for granular simulations, new formalism for the most important laws of physics and more. Any collaboration ideas, any funding, any critique with serious arguments will be much appreciated.

- To build a better computer simulation for the elementary particles and their fields (especially the gluonic one).
- Make an experiment to prove the discrete nature of gravity.
- Design an experiment to prove the granular nature of light (photons).
- An experiment to reflect the absolute frame of reference imposed by the space granularity.
- Design and implement a new formalism for all fields, which will be only based on the space granularity and its working mechanism.
- Complete *The theory of granular gravity* with a new formalism of subquantum mechanics.

**Contact:** Anyone, who may agree more or less with my theory, is welcome to send comments and impressions. So, do not hesitate to contact me with any matter regarding this theory and the related experiments; my personal e-mail address and my Facebook pages are:

[laurentiu\\_mihaescu@yahoo.com](mailto:laurentiu_mihaescu@yahoo.com)

[fb.com/LMihaescu](https://fb.com/LMihaescu)

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