

## The elementary quanta of the gravitational field are the quanta of space and time.

In this sense, those quanta exist of course on the Planck scale as part of the boiling vacuum. So the elementary quanta of the gravitational field are a kind of quantum grains, wave packets, which together make up the variable fabric of 3+3 dimensions of np, with the help of which Einstein continuously reinterpreted Newton's space and time. That is, Einstein's continuous gravitational field, which generalizes Newton's space, and time emerges here on Planck scales as the continuous limit of those granules, wavepackets-geons, these grains of time and space. It is these grains - balls of space-time and their mutual interactions that determine the vastness of space and the duration of time in the basic grid, in which curved continuous states "float".

Dear readers, don't you like the paragraph above? It's just a slightly edited, over-the-top speech **Carlos Rovelli** by the poet Jiří Podolský, who exults with pathos in his voice over the "new modern explanation" of the universe from the pen of Carlos Rovelli...through time and space, and that **this** are the "elements" that are realized and by which with mathematical formalism it realizes "everything". The paragraph **yellow paragraph** of Podolský is here:

[https://www.youtube.com/watch?v=yI3\\_hoVK6U0&t=2709s](https://www.youtube.com/watch?v=yI3_hoVK6U0&t=2709s) → Between 42:00h and 44:00h... , he managed to say that in 2 minutes. I would only need a little more editing of his text and there would be pure HDV. Podolský marvels at Rovelli's explanation of how *he can model (my) HDV* when using "modern physical language", "selected concepts, selected words", new physical terminology..., and then it sounds like this →... at 44:15h:

*...and now how it works technically: (there is a picture-graph on the blackboard) States (3+3D configurations) of spatial proximity, spatial networks (3+3D numbers), there are the vertices and edges and they represent, as it were, the grains (of dimensions of time and length), quanta, (the graph is only a visualization) each vertex on that drawing represents one granule = geon-wavepack, the edges represent their connectors (wavelets of dimensions intertwine, permeate each other) ↓↓*

these are the relations they are talking about here, these are the spin nets (curved coiled wrapped dimensions 3+3D np), and their states represent the state of that field (and matter is just a "by-product of the principle of warping dimensions)... the nets are then transformed "in time" (I'm not allowed to use this word), into complex conglomerates of "wrapped" dimensions which in this state and character manifest themselves and are dynamically realized as matter), the network (3+3D dimensions spacetime) has some shape, some topology (elements matter "floats" in its surrounding distorted space-time) and so on, and it evolves by jumping into some other formation, into some other network, another graph (boiling dimensions evolve into complex matter, it interacts "with itself", i.e. in transformations the shape of those curvatures) ... so those transformations represent the changeability of the world... networks (nets of 3+3 dimensions) are transformed and transformed into one another by discrete jumps, (well, not a word about matter from Podolsky, because matter is only a "product" of the curvature of np dimensions))) which the loop theory describes using spin

foam (and this itself is a state of matter in which and from which "frozen" wave packets are born, clones of shapes, which then assemble elementary particles of matter)... The universe is two-dimensional, everything that is outside is made of two quantities and their dimensions.

The universe does not work according to physicists and their mathematics. But on the contrary... the mathematics of physicists only works after "copying" how the universe works. The universe has been working without mathematics for billions of years. "He" does not need it to exist and function. (!) So: The meaning and essence of the universe, and the truthfulness of the description of the universe, can therefore - logically - be expressed in other ways than mathematics. From this point of view, it is cowardice and hypocrisy on the part of physicists that they have not and still do not deal with HDV models for 40 years. And they condemn HDV only because the author does not have the mathematical apparatus, **without which the Universe can exist**, (but physicists do not), that only the author did not find the mathematical apparatus due to personal ignorance. The entire lecture by J. Podolský is only a modification of HDV.

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Citations from the physics literature: ... gravitational acceleration is equivalent to force acceleration ... based on the quantum behavior of the atom, the gravitational field and thus the curvature of time and space can be detected. ...the gravitational field is a manifestation of the **curvature of space-time**... The principle of equivalence asserts: the gravitational force is locally indistinguishable from acceleration, i.e. from an accelerated moving system... curved space-time forms an arena in which any other fields move willy-nilly, and which by their gravitational action co-shapes this arena...etc. Yes, yes, yes, yes, there is one catch: even failed (my) expressions and verbal formulations cannot erase and nullify and destroy my truth with the hypothesis of a two-dimensional universe, where the **p r i n c i p l e of the structure of matter in the universe** is **the curvature of space-time dimensions**. ....Bad luck ☺, Mr. Krinda, ... bad luck Krinda, but on your side.

JN, 19/09/2022

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