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What time is it from Kulhánek. He's not right at all.

prof. P. Kulhánek: Time in and around us (lecture for the CTU Alumni and Friends Club)

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We understand time as an action that goes forward…; 1: 44h Time is derived from the globe…, it's day, we divide the day into 24 hours, hours seconds… and that seems like a good time… 1: 58h but it's not a good time because the Earth exchanges momentum and its 2: 01h… The moon keeps the Earth slowing down (If the speed changes, then it means that either the length intervals or the time intervals change. So what does this mean? Does the pace of time change? or does the "distance "Which the Moon will offend during the" atomic interval "?)…; so we can't apply it to the time standard… so we moved on to things that are more pleasant to use different crystal oscillations and the like 2: 12h, or atomic clocks where those f. laws seem quite reasonable 2: 19h and we have to say that the gravitational force is directly the average product of masses and inversely proportional to the distance of bodies 2: 26h such laws apply if that time flows evenly (so, according to Kulhánek, on a rocket that accelerates these laws of gravity no longer work properly? If there is dilated time, then "other" laws?) it..I said the only condition here is that it should go in one direction… astronaut who flies into ČD so the only story for him is that the distance to the center is shortened 3: 20h and suddenly the spatial coordinate takes on the role of time coordinate, completely it exchanges: time becomes space and space becomes time 3: 27h, so dogmatically separating time and space also does not work, and there are situations where that spatial coordinate is the only thing heading in any direction. 3: 41h and it's only inside ČD, it just shortens when it falls in and we have no other action than this… so there is "time" there is a spatial coordinate. As I said about the rotation of the earth, it is pleasant that time can be deduced from this, but we use the time that shortens at that (..) so it is the time derived from the coordinated atomic clock, and now assume that the earth is constantly here. the rotation of the earth slows down, so the earthly time diverges.

Since atomic time 4: 24h and… and when the earth slows down by a millisecond, you say 'it's nothing', but one millisecond in 24 hours, so in 1000 days it's one second, so it's set-sacramentally knowing that we broke up from that atomic time, and if we left it that way, one day we would have noon on the atomic clock and there would be stars above us, yes, so this has to be corrected, and so leap seconds began to be used. The first leap second was in 1972 Leap seconds are made in the middle of the year (…) two seconds were added in 1972 (…) one second was added as needed and today and today there is a situation that we have the year 2022 and a total of 27 leap seconds 5: 41h it's almost half a minute and for that you can boil water for coffee in the kettle… so the country has slowed down and we have to compensate with leap seconds 5: 5h. About a year and a half ago, a strange thing happened. For the first time in history, the Earth accelerated its rotation by one millisecond, no one knows why, yeah.

true, something like that must have happened to the Earth… something has moved in the country… El-niño or magma… the earth has accelerated by one millisecond, that is, its period has accelerated by one millisecond… so what about that? by that moon, and if it will continue for many decades, then it is enough to wait half a year and then it will level out, yes, and if it did not match, it is thought that historically one second would take 7: 23h and so we would be from 27 seconds back to 26 seconds, it's an interesting thing about the definition of time that we have to compensate our earth time for that atomic clock time by adding or subtracting leap seconds 7: 42h. to each other and to everyone a little differently is the thing we perceive biologically, in old age time flows much faster than in youth, but it is a subjective impression 8: 05h in terms of such natural time so in Newton's equations time is a parameter, an external parameter, and in fact the first who incorporated that time into events was Albert Einstein and it was in November 1915 when he gave several lectures before the Prussian Academy of Sciences in which he introduced his brand new theory of general relativity. Let's not confuse 8: 43h. please special relativity and general relativity. Special relativity is the shortening of rods and the lengthening of time intervals. OTR is a fungl new theory of gravity which is based on the curvature of space and time 9: 04h. In gravity, bodies move in the same paths, which is strange. If I dropped the chalk next to each other and the brick fell in exactly the same way (which I saw in those elementary schools that the teachers call them the opposite) ,,, one astronaut dropped a tool bag and that bag flies around the sun in the same orbit as the Earth and it doesn't matter that the bag was 2 kilos and the globe is much heavier, the screw that falls from the shuttle flies around the earth as well, pak but then the orbit is not a property of those bodies 10: 05h but it can be the Sun and A E. that the Sun distorts space and time around it and that the other objects move in the distortion in the most straight paths possible…, and let's look at it (Fig. 02) A few remarks: Not only is space but also time distorted 10 : 50h. and why are we talking about it? Because we are talking about time here and we cannot separate time from space. And second note: Can you imagine a warped linear shape? I will use an elastic band here, at least it will be good for something… I have an elastic band here and it is a crooked linear shape, I can also show the expansion of the universe on it .., and here (Kulhánek holds a veil) there is also a crooked thing, a crooked surface. planes do not work, everyone can imagine that it is a warped shape, a warped linear shape. And now imagine three dimensions curved, it just, no one can, it just can't, we can describe it mathematically 11: 43h. , but we can't imagine it, we can't, and if someone claims that they can and imagine a three-dimensional curved space, then psychiatry or other such devices, there is a free field of action and there it can develop
11: 57h. , we don't have a perception… but we would need to imagine crooked space and time, space is three dimensions and time is the fourth dimension, so we would like to imagine four curved dimensions, but nobody just knows that, so we help by helping each other that this is called an "inbedidiagram" of nesting, that we make the 4 dimensions a projection in only two and draw such a curved surface as you see on the board above you. So, just one coordinate will be time, the other coordinate will be space, it's just a relief to the gods because we can't imagine three or four distorted dimensions, so we draw two-dimensional surfaces, there's always a better idea than no idea 12: 43h, there are two coordinates of the four warped ones we drew like this (trampoline in it balls: Sun Earth Moon). Here the cube and the body in the middle are the curved coordinates, and there are clocks and each, they go differently, at different distances the time goes differently, 13: 17h, so not only curved space but also time, which is quite a strange thing that time and space does not stand aside from those bodies but those bodies affect that time and space, but not only affect it, that Einstein's law of gravitation is a law that has an equal, as laws have, and on the left are quantities that describe the curvature of space and time and on the right are quantities that describe the distribution of matter (If mass on the right-hand side were constructed from the dimensions of two quantities,

then the equation would be correct !!. Dimensionally correct. But physicists have not figured it out to this day. Physicists have deceived themselves, deceived themselves: they have put a numerical G-constant into the equation and assigned it quantities that she does not have , she cannot have, because there is no such thing as a physical artifact in the universe. Therefore, we cannot assign quantities-dimensions to it. Like an inequality: there were pears on the left and an apple on the right. The left is not equal to the right, **the excavator is not equal to seven Amazon fairies**, and so the scientists corrected it "scientifically" by inserting a constant into the inequality that would be "opposite". → **PEARS = G-number** (pears / apples). **APPLES**);
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So when we read it (the scam equation on the board), it means the ***distribution of matter "equals" the curvature of space and time.*** 14: 08h If there is zero on one side, there will be zero on the other side Null (O.K. it is correct; but… but if there is a "jerk" on the one side of the equation, there will be no "professor" on the other side, even if there is a G-number in any way large) so solids co-create space and time (no… no; Solids co-create space and time, Professor, SHEEP, do you understand ??, but don't create!!) and within the general theory of relativity our current theory of gravity space and time without bodies cannot exist. (**but he can**: before the Big Bang. More and more world cosmologists are already leaning towards this statement and my opinion) and those bodies co-create space and time 14: 29h, (mistake of the professor, **co-create something other than co-create**) some body more, some less. recently gained weight and there was such a magical combination of 123, just so someone doesn't, so I curve that space and time much more than most of you here. And vlastně and this is actually the first time who has thought about what space and time is? (Einstein) (I've been thinking about "what is time" for 40 years) It's an entity generated by 14: 58h bodies (No, on the contrary! Thorough research of HDV: http://www.hypothesis-of-universe.com/index.php?nav=e is no longer on me, it is already on the studied physicists bez, without Professor Kulhánek). If there are no bodies, if we are not, then there is neither time nor space (this is a trivial mistake of thinking, Mr. Kulhánek .., if you will not exist, if you were not here before your own birth, then the universe was (!) , the opposite of what you claim.. There was space and time, only you weren't, and you were made of that universe from its 3 + 3 dimensions in the 13.8 billion years after the Bang.). That is, space and time make sense only in the presence of bodies. (Sure; if it's about meaning. In the absence of bodies,

that time and space don't make **sense**, **but it is-it still exists**, even without matter, even before the great Tesk. There is a 3 + 3D flat non-curved state)

but it's ambiguous, that general relativity is the theory of gravity, so what if we don't deal with gravity, but electromagnetic processes, weak interaction, strong interaction, and everything can be completely different, quantum theory doesn't even need to use time at all, they don't need it, and they are quantum theories that do not have time at all. (Professor, but the micro-world of interactions does, it needs time and its dimensions, they are inside matter. an order of magnitude higher than in gravity, in which the mass of the multpackage "floats". ***The gravitational force is by far the weakest of the four forces (is about 10^{38} times weaker than the strong nuclear force, and about 10^{36} times weaker than the electromagnetic force).*** Professor, this is because, and precisely because, "gravitational space-time" is almost unfolded compared to space-time in the microworld of particles and interactions and the three remaining fields…, 38 times stronger curvature. Although I don't know how much curvature belongs to the time components of space-time and how much to the space components, but that's already **your** concern !!! your family members did not laze and did it for you and with your recommendation)
Those equations of quantum theory do without time coordinates, which is only there parameter 15: 35h. (And that's why, Professor, you're 40 years behind me…) On the one hand, Einstein explains to us that space-time somehow relates to bodies, and they are able to somehow curve, change time. (I know why, unlike you)… On the other hand, quantum theory doesn't use time at all, and there are quantum theories that don't have it at all (which you have no idea "why") 15: 53h. We have a pulsar on this slide here, it's a neutron star that has an axis of rotation, heading in a different direction than the direction of the magnetic field, and as it spins, those pulsars flash beautifully, so it's such a very good clock in our galaxy, tik, tik, tik, and that's just great, and we have clocks in the galaxy that tick to us beautifully on a regular basis, (yes, clocks are any mechanism that "cuts" the same intervals on the time dimension, and regularly) well, and when the signal from those clocks flies through some mass (the picture shows a sphere in a trampoline) then the very massive sphere distorts space and time around it and the time signal flying around that body changes, it changes characteristically, (it changes ,, cutting "intervals" due to "distortion", ie relative to the Observer will change the rotation of the time dimension and "sensing" otherwise rotated interval, ie shorter or longer http://www.hypothesis-of-universe.com/docs/c/c_431.jpg)

it's delayed, the time pulses are condensed, so when we watch the distant clock, we can infer what substance was between us and that clock depending on how the signal is delayed or phase shifted17: 12h a..and here it starts to be used for gravity wave detection because our detectors gr. The waves are inter-ferrometric, two perpendicular arms, and we measure the end positions of the mirrors using laser beams. It's successful, it's perfect but it works around hundreds of 17: 37h actors, and for the first time they captured gr. waves in 2015 on September 14, but not all objects are issued by gr. waves on 200 actors, we would need a device that would capture significantly lower frequencies, and..and the LISA experiment is being prepared for this, when there will be three probes on which three lasers will light each other 2.5 million km apart, start it will be in 2024, but we will not make a larger interferometer. And we have the pulsars at our disposal, these are the clocks that nature has placed across the galaxy, here are some, here more and more, and those pulsars send pulses that travel to us to the earth and on those waves are characteristically delayed or accelerated and when we we can monitor a lot of such pulsars so we can calculate the environment through which the electromagnetic signal passed and we can detect gravitational waves. It's called the pulsar-tajming-rej method and it looks very promising, because it's being tested in

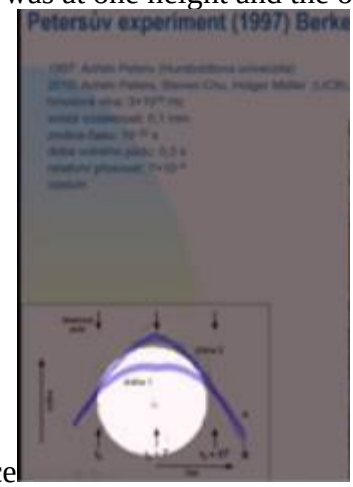
Australia on Parkers radio telescopes, for example, maybe someone will remember what they were useful in the time of Apollo, they transmitted signals from the Apollo ship, so they were very successful and… and nowadays we are trying to use this method of pulsars, so far unsuccessfully, but they are building QTR, which is one of the greatest projects of mankind when we will have tens of thousands of 19: 44h radio telescope antennas in Australia and South Africa and together these areas give a square kilometer . Several hundred antennas are already deployed and are continuously producing results, so they photograph the center of the galaxy with absolute fantastic accuracy, and when this radio telescopic field is completed, sometime in 10-15 years, we have high hopes of capturing gravitational waves but not just gravitational waves. from those ordinary objects, but gr. waves from the beginning of the universe 20: 22h
(which God knows what he will tell us about that beginning. Do physicists have a hunch about "what" he will reveal and reveal? So far, Kulhánek has said almost nothing about "what is the time" (which was the intention of the lecture), only the sauce around-around…)
And that's very important, because we don't know how the Universe came to be, and if anyone says they know, they're lying. We just have some dreams and visions of how it may have arisen but these are very, very far from the truth. And here's our chance to capture the gravitational waves from that beginning and be able to analyze them and have experimental data on how the universe came into being, and that's a different position than estimating. By the way, since we got here in cosmology, I'd like to say one thing you need to realize. We have always been wrong in history. In the beginning, people said the country was flat. It seemed logical when you are out so the landscape looks flat… those people did not have the opportunity to see the curvature of the land at that time (but the sailors had the opportunity at sea), a certain percentage of people claim it today, and whether our school system will continue in this way , so in time it will take a third of what he will believe, but that is another matter. Then we said that the earth is the center of the universe and everything revolves around us, from today's point of view it looks ridiculous, but take that the people who said it saw stars revolving around the earth in the sky, so they logically thought that the earth is in the center and the stars revolve around us, they could not imagine that the earth revolves around its axis and that this effect is created, again they were not right 22: 11h. Then we claimed that the sun was at the center of the universe and then we claimed that the universe was made up of galaxies yes, people saw the silvery band in the sky and then it turned out that there was a huge number of stars in the sky, such a disk-shaped formation and then began to call the Milky Way, our galaxy. And it has long been believed that it is the only galaxy that makes up the entire universe. And even in the 1920s, the so-called debate arose when two irreconcilable groups of astronomers argued terribly, half arguing that the universe is, of course, only our galaxy. is another galaxy… and that nebula there is another galaxy and another and there are many such as the Milky Way.
(So far, Kulhánek has said almost nothing about "what is the time" (which was the purpose of the lecture), only the sauce around-around…; I do not use the sauce http://www.hypothesis-of-universe.com/docs/j/j_204.pdf therefore and not only because Mr. Kulhánek deletes it - it removes it from his server)
And there was such a big debate, and the people were arguing very, very, and unforgiving until Edwin Hubble, who was watching the Mont Wilsson Nebula with a 2.5m telescope in 1923, saw the stars in the nebula, and even some of the stars were cephaids and can be used to determine the distance and determined that the nebula is far, far beyond the Milky Way and that the Milky Way is not the only galaxy, that at least one Andromeda, well, and because it was a very important finding, so (…) and he wanted to end the debate at some festive session and so I'll tell you how it is I'm the one who will tell you who knows it well he was a lawyer, forged, and in college he was a boxer and of that boxing he was left with that tenacity. And he

decided to tell people how it was only in 1924, a year later, when a major conference of the American Astronomical Society was to be held in December. But somehow the devil didn't want it, he got sick, so at least he sent the conference by letter. There they read his letter that the great debate was ending, that it was not true that the Milky Way was the whole universe, that there were other galaxies, and that he had proved that Andromeda was the other galaxy. So it was December 1924 and it was published in 1925; 25: 00h. When you read in various sources the end of the great debate and the discovery that the Milky Way is not the only galaxy in the universe, someone gives the date 1923, when he really measured it, someone again 1924 when they read the letter, and another that in 1925 when it came out press. Then we thought that the universe was composed of atoms as we were used to. Then came 1998 and dark energy came, dark matter and it was different. And now when you think about the views we have on the functioning of the universe: flat earth, earth in the center of the universe, sun in the center of the universe, the Milky Way the whole universe, atomic matter all matter, there is not a single moment when we have the (final) truth… historically. So we've always been wrong, so be very careful about what they say in cosmology, so it's highly likely that we're still wrong, and that it will be different, yeah, 26:13h. So one has to be careful and careful in interpreting different things. So let's move on in our story. If three bodies curve time around each other, then it should go some way to measure that time curve. And the first such attempt was made by **Pound - Repka** in 1960. And it was a very famous experiment, in 1960, and it was the most accurate experiment that humanity has ever done. There was a building and a tower on it. (…) They had a mobile laboratory (…) to detect the change in the course of time between the top of that tower and the bottom of 27: 11h., That is 22 m high, and on those they tried to find out the curvature of time caused by our country, and were successful. They used a radioactive emitter cobalt 57, which had an iron 57 as a carrier, and that emitter emitted photons of a certain frequency, here in the book it is, 3,5 $.10^{-18}$ herz, and that's actually the clock, that's ticking that frequency, and here's the one a detector that records the ticking of those hours 28: 02h. So if Einstein is right and the earth curves time, then the photons here (at the cobalt) will tick differently, and here (at the tower) they will also tick differently, because it's farther from the earth. But how to measure this year. They had a very accurate detector tuned perfectly to this photon frequency, so when they used that detector here (below) they detected the oscillations that the photons were there and… and when they put the same detector up they didn't detect anything because the photons changed their frequency, the course changed time (The system S1 rotated at ground from that system S2 on the tower http://www.hypothesis-of-universe.com/docs/c/c_431.jpg ; http://www.hypothesis-of-universe.com/docs/c/c_430.jpg)
But try to convince someone that you measured something when you didn't measure anything. (Among other things, they proved that the clock = mechanism at precise intervals, ticks everywhere in the same way, ie even on the rocket, which flies even closer to the whole, where we "think" that on the rocket dilated the time that the commander - Paul ages more slowly than Peter on Earth… no, no, the atomic clock is ticking everywhere the same, even on the rocket, only here on Earth we get "rotated" information from the rocket, rotated systems with dilated intervals on the time dimension. dilatation, because the system owns the rocket S (2) rotated relative to our system selected-basic S (1)) It's pretty stupid to say that general relativity also applies to curved time, because I didn't measure anything, so they didn't measure anything above. So they went from the forest and used a loudspeaker. They gutted the speaker (like students ...) and they shoved the radioactive material on that speaker, and it vibrated. What does it mean when it vibrates? for a moment the radioactive material moved up, for a moment down, to the detector and for a moment away from the detector and the Doppler effect works. So there were two ways to change the frequency. One that frequency due to the curvature of our country's time and the other due to the fact that it commuted to that

speaker 29: 50h. that signal because the Doppler effect with that time shift was exactly interrupted (but that they hit $\Delta t_1 = \Delta t_2$ so accurately ??? is strangely unbelievable.).
So in the end they really did it… and their article about measuring the first curvature of our Earth's time was published on April 1, 1960, in April, yeah. Today, no scientist would like to publish an article on the first of April that he was worried that he would be laughing (he was here laughing for Kulhánek and his family for 16 years - to this day). … They published an article on the apparent weight of photons, but they basically discuss the curvature of time (without humiliation, without spitting) 30: 48h. our country. And it was a forceful experiment, but not too accurate. They verified some units of percent, it was closer to 10 percent and a more accurate experiment was needed. By the way, the relative frequency change at 22 meters of these ***Δ omega / omega*** photons was 10^{-15}. that is, they were able to measure the relative frequency with an accuracy of 10^{-15} in that experiment, so I say it was the most accurate experiment of humanity conducted in 1960. Today we have more accurate and that is the detection of gravitational waves and there is a relative accuracy of 10^{-20} (31: 33h) and so we have moved on. And if we wanted to increase the accuracy of measuring this frequency, then it must go to 22 m, but in addition. (Mr. Kulhánek does not talk about Time…, so far he talks about time intervals, about changes in these time intervals, ie changes in the pace of time, about frequency, but it is still not "about Time". This is the same as a professor's lecture " about matter, about the nature of matter "and he still talked" only "about kilograms…; for Kulhánek, time is still just a" parameter "… as for Putin, Ukrainians are only" regional Russians").
Then **Hefale and Keating** prepared a 1971 experiment with an airplane. It was eleven years after **Pound-Rapka** prepared the experiment and suddenly they had a cesium clock, they even had three hours. They left one of those hours at the Navy Institute and took two on a plane. Unfortunately, they didn't have the money, they didn't get a grant, they didn't have women or blacks in their leadership, so they couldn't get a grant, not that we are today, I'm sorry. They could still get the grant, but they didn't. So they used commercial flights for 32.38h. Their clocks had a boarding pass, and the only advantage was that they boarded as flight engineers had outlets, put the clocks in their seats, and then the others came. And in other years, they circled the world, unloaded at the airport, and boarded another plane, circling the earth in one direction and then in the other. And they managed to show (…) when they took the clock back to the clock, which rested calmly in the navy laboratories, that the time had broken out, and exactly according to general relativity. (what "broke up"? did the sum interval on the time dimension of hours **a)** on the plane with **b)** the total interval on hours at rest, in the laboratory? Did the "Σ interval" or "tempo" of time pass?) To be precise, the change in time is of threefold origin. **a)** One reason is that the plane flies to the ground, the so-called time dilation, and it is a phenomenon of special relativity. (mutual constant rotation of systems) **b)** The second reason is that the earth rotates, it is a non-inertial system. (mutual rotation of systems obviously)
http://www.hypothesis-of-universe.com/docs/c/c_431.jpg **c)** And the third reason is the one we are talking about here: the curvature of time by our country. (rotation of systems due to changes in gravitational potential .. http://www.hypothesis-of-universe.com/docs/c/c_430.jpg ; http://www.hypothesis-of-universe.com/docs/c/c_433.jpg)
Those values were great and they managed to measure the curvature of our country, first with an accuracy of 0.1, which is similar to the experiment before, but then with an accuracy of 0.01, and that's with an accuracy of one percent 34: 09h. And that's very decent. They repeated that experiment many times, and the Hefale and Keating experiment became famous to experimental physicists. If we want to be even more precise, we have to know that. Pund and Repka had only 22 m at their disposal. These had 9 kilometers at their disposal, the plane flew at an altitude of 9 kilometers on average…, so it occurs to us to put the clock on a rocket

somewhere and we will measure the curvature of our country 34: 43h. Such an experiment also took place, it was a GPA that they prepared at Stanford University and used as a masseur as a lesson. This device as a laser… laser works in the visible field, so this device works in the microwave field, it is a hydrogen massager and it is a perfect time standard. (that is, it is a mechanism that cuts exactly the same intervals on the time dimension for a long time). They loaded the clock on a rocket and then fired it from the plane. But they needed to watch the change of time perpendicular to the ground, that is, when the rocket flies straight up (and then straight down again, not to descend into orbit.). In other words, deliberately fired up the ballistic trajectory and then watched for hours, the missile fell somewhere in the sea…, it is no longer so important. 35: 50h And they managed to verify the general relativity with an accuracy of 2.10^{-4}, we are already in the hundredths of a percent, that is, we measured the curvature of our Earth's time with such fantastic accuracy. (and so "what" curvature did they measure ??, was it of constant size with height, or did the curvature parabolic?).
Today, we don't have to send a rocket clock up to 10,000 km like this experiment. Today we use GPS satellites that fly even twice as high as this experiment, ie 20,000 km. So, of course, the program that evaluates your position must take into account the curvature of our Earth's time 36: 39h. If the system doesn't take her into account, we'll get a hausnumer. In our latitude, the GPS would move in 8 hours from the actual position by 8 km, yeah - it's a huge difference, so each GPS, the evaluation, the program has several lines that recalculate the time on that satellite, and the time on that GPS, so We experience the curvature of time day-to-day if we drive and use GPS, so there is manifest relativity. Today we live in a beautiful time when the second phase of the electronic revolution is attacking us. We have all experienced this first phase, it started with some tubes, transistor circuits, and gradually electronics took over civilization everywhere, be they mobile phones, computers, and if they turned off the power, we were completely in trouble, that is, we are dependent on those electronic gains 38:00, and we're basically happy for the electronic revolution. But she has the second phase now. If we are at elm. they used its charge, but the electron not only has a charge but also has spin, and now we are learning to use its spin and quantum properties, so spin-tronics is evolving, it is a device based on the spin of the electron, but also other devices based on quantum principles. And those quantum principles are different from the common principles. I'll try to explain 38: 35h. how it all differs. We have no receptors on how the microworld behaves, we can only wonder how it behaves, we cannot say whether that microworld object is a bullet or a wave http://www.hypothesis-of-universe.com/docs/c/c_426.jpg , this is simply a bad question, because that object of the microworld is something that is incomprehensible to our senses, and that object tries to assign to it the concept of a ball, time the concept of a wave, and it always fails. 39: 01h. And those objects of the microworld, in addition to being able to do a lot of other pieces. In the macro world, you sit here and listen to what I'm saying, but if we weren't in this auditorium and were objects of the microworld, we could be in super-help states, I'll talk to you here and watch TV at home and you'll be in the auditorium at the same time. in the pub with friends and still in the zoo to watch the camels that you tell me it's not possible, but it's not possible, in the macro world it is, but in the microworld it is. Microworld objects can be in multiple states at once. And the second phase of the electronic revolution is starting to take advantage of this. He begins to use such things as superposition and interconnectedness, which are typical for the microworld 40: 02h. And we already have a lot of devices that can use it, they're called quantum devices. In 2017, the first quantum computer was produced. And what I have here in that picture is a gravimeter. Imagine you have particles, and in order to control it, you have ions, it's ionized, like rubidium, or something like that, and by being ionized, it responds to an electric, magnetic field and so you can produce trap, an electromagnetic trap in which you hold those ions, like you hold them there and… and now you make a laser pulse, it's like you have an ordinary ping punk and

kicked them, it flies up, so with that laser pulse it flies out of the trap. Nothing new, quite understandable. And now we put two laser pulses of different sizes and now one pincher flies into the subway and the other into the subway and a half… but they're not pinpoilers he's a small world and every ion catches both of those pulses, gets into a superposition of states, each that ion flies to one height and at the same time to the other height. We humans can't do that in two places at once, but those ions can do it, and here (in the picture) we can see their ballistic trajectory. Ten ion 41: 31h. it flies to one height at the same time and to the other at the same time…, but it differs slightly, by tens of millimeters. But the objects of the microworld are not spheres, they are at the same time waves and the wave that belongs to one state is different from the one that belongs to the other state. Here Kulhánek forbade himself to a topic that deviates from the field of vision of "what is time" .
I'm not interested in these status descriptions.
And this single ion interferes with itself, because it got to one height and another height, it's two waves and those waves interfere. And in 1997, the interference pattern was first read, it was A.M. Peeters who tried at Humbolt University and showed people: hello, the superposition is a fantastic thing, it will do the interference pattern and we can read it. And in 2010, 13 years later, Steven Chuck (Nobel Prize winner) said, but it's fantastic, we're able to determine the gravitational field from that, because the ion was at one height and the other at

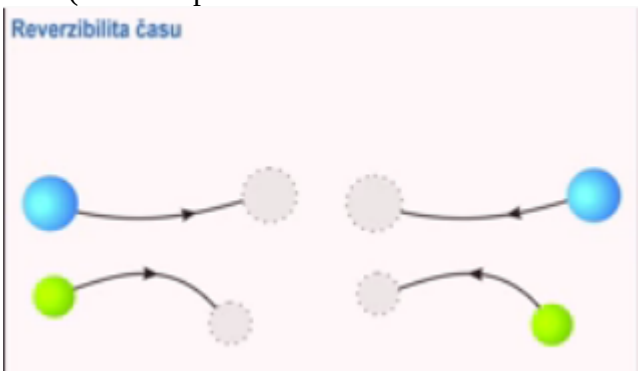


the same time, and here's some gravitational field difference
Translated into words of general relativity, we are able to find the curvature of time and space to one tenth of a millimeter of height and suddenly the experiments we did in 1960, ie those 22 m, then 9 km, then 10,000 km and suddenly 0.1 mm and suddenly relative measurement accuracy 10-7m, many orders of magnitude better and this is the huge leap in technology when we start using quantum mechanics. And immediately quantum gravimeters began to evolve
(Well, that's nice, but… but it's still just a just "measuring" the time interval on the "distorted" time to compare with the "undistorted" interval in the undistorted flat 3 + 3D raster, the thread (in which the atomic clock is ticking. But what is it necessary for? On Mars, I can choose the "second" according to another run of the sun around Mars = Mars day and divide it into 24 Mars hours and then Mars minutes… blah. It is still just a choice of the interval "as basic". And then Mr. Kulhánek starts to make a "more accurate mechanism for measuring" the curvature of the basic interval by Mr. **Pound - Rapka** and then there is an even better mechanism to "measure" the curvature of the Earth by Mr. **Hefale and Keating**… and now there is an even better mechanism for measuring the curvature of time in gravitational field from Mr. Steven Chuck and …a ?, well, what about that?
Summary : humans have chosen a time interval such as a second as the base interval (this is a different interval on Mars) and now physicists are measuring and measuring gravitational curvature of time , measuring it in 1960 (at 22m height) …, Then in 1971 (at 9 km

altitude)…, then in 1997 - GPS (at 20,000 m altitude); now measures the "curved interval" in 2010 (at 0.1 mm height) using quantum ions, ..; We simply use various tricks to refine the "shape" curvature of time over the Earth, and we have it more and more accurate and more precise. - And what about it ? Question: Professor, this is the reason-cause ? "Time curve"? In my opinion, is the reason for turning the systems **a)** STR is a "stoic" rotation of systems (in uniform motion always in some "stop-state of velocity"), **b)** gravity is a" parabolic" rotation of systems in accelerated motion. And how do you verify this statement (mine) with the help of those experiments from 1960 + 1971 + 1997 + 2010 ?????? How do you verify that the Universe does not expand axially, (see erroneous Hubble), but expands, http://www.hypothesis-of-universe.com/docs/c/c_065.jpg ; thus, the curvatures of the 3 + 3 dimensions of that space-time expand, and it expands "from every point" http://www.hypothesis-of-universe.com/docs/c/c_223.jpg of the microworld (foam of dimensions http://www.hypothesis-of-universe.com/docs/c/c_168.gif) and the foamy) expands into the form of a macroworld (with gravitational curvature spacetime around matter http://www.hypothesis-of-universe.com/docs/c/c_190.jpg or between bodies like stars and between galaxies)
http://www.hypothesis-of-universe.com/docs/c/c_241.jpg ; unpacking macro scales is also regular and irregular, chaotic .., inhomogeneous unpacking spacetome → http://www.hypothesis-of-universe.com/docs/c/c_222.jpg ; it is not a Hubble axial expansion. http://www.hypothesis-of-universe.com/docs/c/c_176.jpg Why? **A**) the time dimension is curved, everywhere, always; **B**) the rate of passage of time is not the same everywhere in the stop state; **C**) Perhaps the pace of time changes as the universe ages; these science-physics issues have never been explored)
43: 35h. because they are more accurate and today everything works in the position of superposition, and the American NASA, which sends probes that map the Earth's gravitational field, no longer considers other gravimeters than quantum ones, because only their accuracy is significantly higher. When you look at the lab in which it was measured, it's fantastic. I have great admiration and respect. When I see such a picture, I remember when I studied theoretical physics at MatFyz, so we had some kind of labs and ... 44: 11h. (…) Blah-blah (I'm not that I'm clumsy, I'm quite handy here, but I was kind of unlucky….) .. so that's why I have a lot of respect for these devices and I admire experimenters who can do such things (pity that you do not have such an account for HDV). The relative accuracy here is 10^{-9}, which is seven orders of magnitude better than in the experiments I mentioned before.

Another issue (in the interpretation of time) is that we would all like to reverse the flow of time against the flow of time, whether it is possible to get into the past. Anyway, we all know that it will not go physically, because that time is given by heading in one direction. (What is valid for you, Mr. Kulhánek, that you have made a relative accuracy of "time curvature" with nine zeros after the decimal point? What is valid for you? If you did not understand that time is a physical quantity and "is not given by that it runs in one direction "(because time does not run - it is a stoic quantity with three physical dimensions, but we run after that dimension. What is running is us, we are material objects that "move" over the quantity of Time "and cut time intervals on that dimension - that is then the" running "of time. (Probably just as the Sun and the stars do not revolve around the Earth, which the "Kulhánks" thought in the Middle Ages, but vice versa. Well, Kulhánka, on the contrary: time does not run. time "in one direction is because **on a macro scale it expands, not collapses** and only expands ((c = 1/1 > v = 0/1 > u = 0/∞))… However, time can also collapse." The curvature of the dimensions of time and lengths leads to the microscales of Existence, ie on scales 10^{-13} and lower (up to 10^{-42}), where the dimensions of 3 + 3D space-time begin to curve so much that it

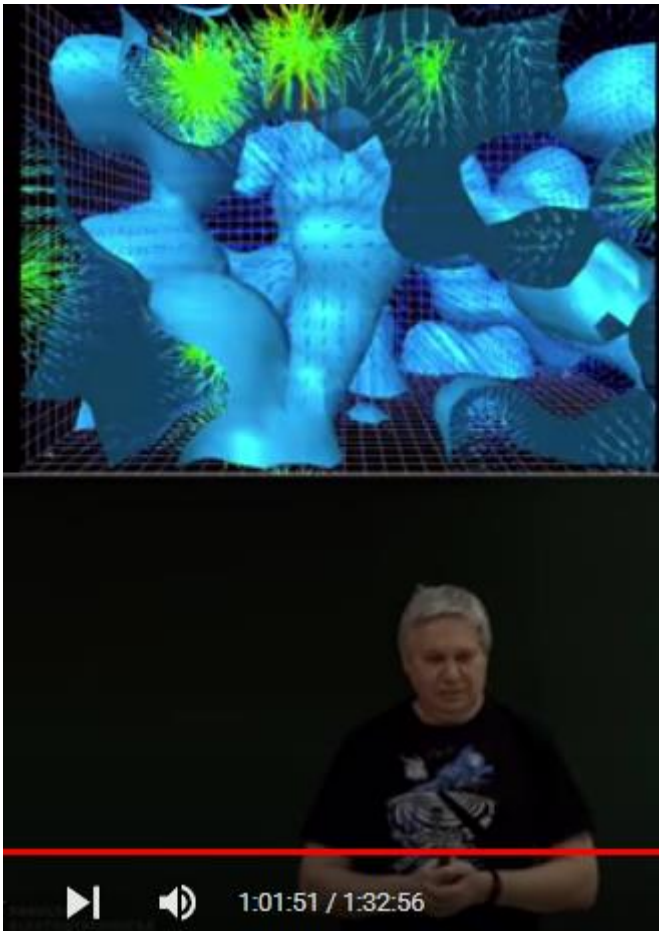
becomes a "foam", (plasma), in which "time is already running" chaotically, ie vice versa to positions where curvature is packed into entities - geons and conglomerates of multivariate dimensions - and thus becomes "packed" cp matter, this prevails within matter… Because "curvature" dimension is a real-way of construction-creation of matter polí and fields. In the quantum world, time runs "back and forth", which is why QM doesn't need that time, as you said. - So: you can still indulge in the amazing devices you have in the picture above your head, which have that nine-digit precision..)
But if you look at the really elementary processes of some particle collision and film it 47: 24h. (here is a picture that Kulhánek left over his head)



on a film strip or on a digital recording and then you let it go back, that's how it goes. You can't turn back time, but you can record the crash and play it back on the monitor. And the question is, is it also possible in nature? And it seems that yes, we believe that yes, that the basic processes are so-called reversible ..., even in Maxwell's equations, if you exchange "t" for "minus t", then nothing much will happen there. So at that elementary level, time can go back in the sense that when I record their behavior and let it go back, such events also exist.. But the world is not elementary particles and the microworld, we said to ourselves, we do not understand it, we do not understand it, our world is a macroworld and statistics already work there. And here in those pictures, each of you can say what was before and what was later. Here someone lined up the molecules and went for a beer, and this is a later situation, chaotically the molecules have melted into the surroundings; here the workers came again, laid the bricks and two years passed and you will find this (a pile of rubble). We clearly know that time flows in one direction (in the macro world) and cannot be reversed. Chaos grows in a closed system, specifically we say that entropy increases 49: 08h. We physicists know such a holy combination of CPT, I will try to explain what it means and I would start with the letter P, parity, mirror symmetry. Imagine that I want to test how nature works and make a device, I will have it, there will be a pendulum, it will present gravitational events. Then there will be some lasers that will bounce off mirrors, resonant cavities, that will test electricity and magnetism. Then I will have some radioactive material there and it will test my weak 50: 18h interaction. similar to under our feet when it warms the heart of the earth and then we will have a small nuclear reactor, a small Temelín, for example, and it will test my strong interaction .. such a beautiful device that will test everything we know if it works nicely. Well, I'll set up a mirror like this and invite the best technicians in the world and say: make me a copy of the device, but according to what you see in the mirror. The task is solvable, but it's not the same, the device. Every left-handed thread will be right-handed in that mirror, so the technician comes 51: 02h and you start, he makes the threads, the screws make the reactor, he builds - what I did (bricks appeared on the board) and… and he says you have it, you can let it go . And here's the question: and will it work like the original device? or will not. And we thought for a long time that it would be. Until 1957. In 1957 with experiments first with kaons http://www.hypothesis-of-universe.com/docs/c/c_067.jpg and then with radioactive cobalt , Li-Yang and the Chinese physicist Wu have shown that mirror symmetry does not

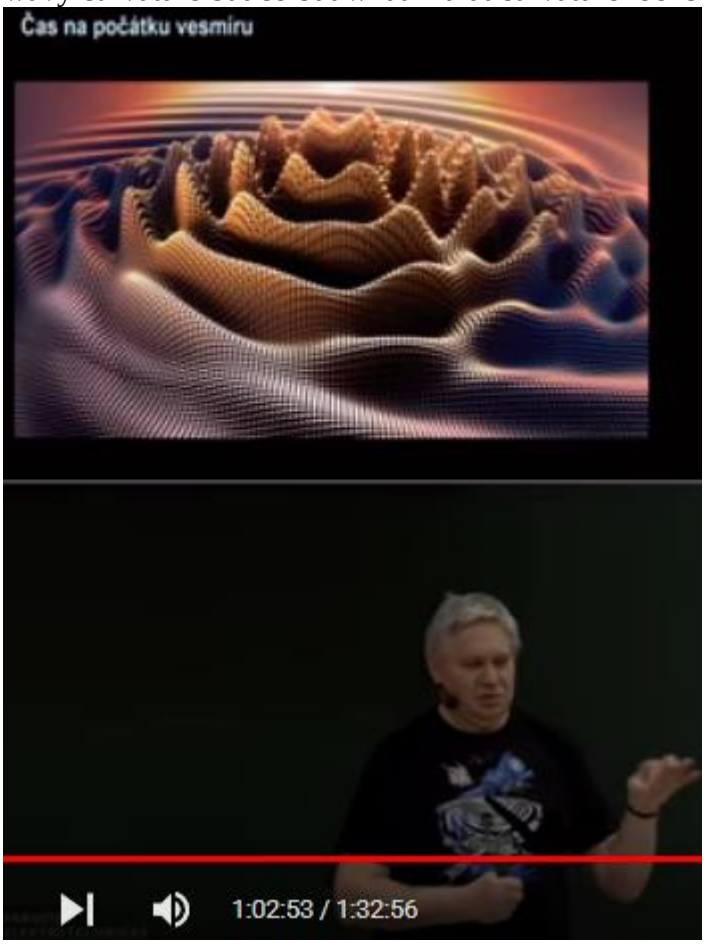
apply, the device made according to the mirror image will go completely different and not a few years have passed and it turned out that this device is not even constructable in principle as a mirror device, why? Each elementary particle has spin. It's stupid, but you can imagine it as a bullet, a hunter, a rifle, a beast… (by the way, on August 11, I was hit by a doe on a bike at 52: 22h and I've been here in the hospital for quite some time, I will become a hunter and I will walk around and shoot them) and the rifles of the rifle will crush the bullet in the barrel, it is stabilized by rotation, so-called, and the bullet can be crushed in one direction, clockwise or counterclockwise in the other. And elementary particles work similarly. Neutrino flies 52: 52h. and it spins in one direction, that's the spin. If I wanted to do it mathematically, it's a projection of the spin in the direction of motion. So the designer would come, and there are the processes of decay, so he would tell you I'm not constructing it here according to that mirror, because in that mirror you have neutrinos that rotate in that direction and in that mirror it rotates the other way around and there is no such neutrino in nature
(ale jako antineutrino v přírodě, tedy v antisvětě je) 53:22h.
So it can't even be constructed in principle, because neutrinos all spin in one direction and we don't have any neutrinos that rotate in the opposite direction. But since we're smart, I'll tell the designer: use antineutrinos instead of neutrino, antineutrinos spin the other way around, so let's think about it and tell him: look at it all, instead of neutrino antineutrinos, take positrons instead of electrons, take hydrogen instead of hydrogen, and do everything from antimatter. And that's the symmetry of CP, that's charge symmetry, when we take the charges and exchange them for the opposite we get the antiparticle. And we are already at that CP combination. And what we told the designer, here you have the machine and the mirror, and make me exactly what you see in the mirror, but from antimatter. He'll make it that way, then you have to, and you'll think it will work, and we thought so until 1964. In 1957, a violation of the left-right symmetry P was found, and in 1964 a violation of the CP symmetry. So even this does not apply, it is not possible to exchange matter for antimatter, and the left for the right, it is not the same, the width is asymmetric. The only thing that could not be challenged is the combined symmetry of the CPT. So let's tell him: look at that machine, take it as it looks in the mirror. It's made of antimatter in the mirror. Shoot what the events looked like in that mirror, let it go backwards and here we will ask if it works after running 55: 25h. So far, we haven't found a single experiment that contradicts it - but that doesn't mean it's dogma, that's really the case. Our belief is that, and it is nothing more than the belief that the CPT's combined symmetry holds that if we substitute time for minus time, charge for minus charge and left for right, then these happenings will not change. We don't know if this is the case or not, but we haven't found anything against it, which is also something interesting about time. And now what about that time in the microworld. This is a huge problem, because we know time in the macro world where we measure it with some clocks, cesium clocks, but in the microworld we have individual objects that are described by quantum theory and quantum theory in time. does not have implicitly. It can be there as a parameter so that we can introduce time evolution but it is not necessarily necessary..56: 34h. But then the question is: at the beginning of the universe, when the world was extremely dense, extremely hot, does the word time make sense? What if that time didn't work there at all, it didn't exist at all, because we have time in conjunction with general relativity: the curvature of space and time by material bodies, but there were no material bodies, there were microworld objects, and these objects don't meet OTR requirements. And also when I use OTR to describe the expansion of the universe and go back in time, I get some time T = 0 and a state in which there is infinite density and infinite temperature of the universe, but each of us knows that infinity is nonsense, it is just a mathematical limit that there is no 57: 25h. By the way, once a desperate dad asked the Czech Astronomical Society that his six-year-old son was constantly bothering him with what it was like infinity and that he couldn't answer him and if they couldn't answer

that son and they tossed it like a hot potato and then sent it to me that Kulhánek will solve it. So I thought for a long time what to write off and then I wrote to him: dear boy, at the age of six, you must read fairy tales and you know that various supernatural beings appear in those fairy tales, but they don't exist. . And with that infinity, you have the same thing: every physicist knows that infinity is very much, but that there is no real infinity, and only those bad mathematicians scare us worthy of physics, but you won't find any infinity in nature. Therefore, if it is based on OTR that the temperature and density at the beginning of the universe were infinitely high, then for God's sake, we should not hastily search for it, run out and look for it somewhere on the canal. 58: 55h This is a clear failure of that theory. We have to admit that the theory failed and we have to use a different theory. In that extremely dense and hot world, I have to use quantum theory, quantum theory describes such an environment, and quantum theory doesn't need that time. So how is it: we need that time, or we don't need it, we don't know. At that beginning, somehow, that time did not exist. It emerged later. And that's a very, very interesting and heretical idea. Once when they asked Stefan Hawking that it was strange that the universe had a beginning and what was before that beginning and he did not hesitate and said: well there was a god who prepared hell for the people who would ask about it. Which is a beautiful answer, (for other answers, people are sent to the insane asylum) ... but on the other hand, today we do not believe that there was any beginning with infinite density, infinite temperature. That universe was a quantum universe, quantum laws applied there and in quantum theory movement cannot stop. Even the stupid crystal you have, so it would seem that the more you cool it, the less it will vibrate, and that at absolute zero it will stop vibrating completely 1: 00: 20h. It is not like that. Even at absolute zero, it will perform so-called zero oscillations. This is due to uncertainty relations. And you can't know the position of the ion and the speed at the same time. If all the movement stopped, then the inons sitting in the crystal lattice know the position and know their speed, and that is not possible. Even at absolute zero, it will somehow twitch and vibrate the crystals, and the microworld has such a movement of its own. And so it is with the vacuum. We would like to say that there is nothing in a vacuum, quantum theory does not allow us to have anything there (and if the Universe wanted something to be there, the Universe would have to ask physicists permission, right?) If you take the electromagnetic field, then em. The field has some value, momentum, and at the same time I can't know its momentum and position. It cannot be zero elm at the same time. field and momentum of that field. So elm. the field in the vacuum will be present to some extent. (Sure. Vacuum isn't just a chaotic boiling-bubbling (which word doesn't mean temperature here) foam dimension, http://www.hypothesis-of-universe.com/docs/c/c_167.gif but even less "floats" in it crooked states, but with an exact mathematical expression of the curvature of cp dimensions that present different fields)
And with that absolute possible zero temperature, it's like we admit the smallest possible amount of motion that the laws of quantum theory allow, so 1: 01: 33h, so vacuum is the state with the least number of particles and the number of fields that the laws of quantum allow us to theory, but it is definitely not zero. In a vacuum, a pair of particles and antiparticles can form and disappear again, there is various wild yeast by fluctuations in the particles, they form and disappear again, and the vacuum of the fields looks something like this →



..and now tell me where the time is when it frowns like that 915 / 5 000
(and that's exactly what it is, Mr. Kulhánek: The time dimension all three twist, curve, pack so that we don't know from it "main flow direction = passage of time", not in the microworld; a moment forward, a moment backward, a moment up…, simply so it is in that vacuum, so it is in that Planck's world of "crooked dimensions" and a world - an environment where "curving" of dimensions means the production of matter and fields , which you have never understood and will never understand svým with your brain, and which is different than in the macro world, where matter "floats" = collapsed states of dimensions and time and length) in expanded 3 + 3D space-time, and it is expanding more and more from Bang http://www.hypothesis-of-universe.com/docs /c/c_239.jpg and thus time flows in one direction - expanding the time dimension! and this unpacking is not uniform throughout the universe, ie only according to some involute, it is anisotropic http://www.hypothesis-of-universe.com/docs/c/c_240.jpg between galaxies)
That time simply lacks meaning there, and the Universe could probably have come into being such that the World of Quantum Fluctuations has undergone **some** quantum transition, and from that **some** our Universe has emerged. Here, Professor, "s**omehow**" you just recorded for the repayment of your insult, the humiliation of humanity to the bottom **:** probably "**somehow**" your mother walked young after E 55 and from that, so "**somehow**" then you emerged. *I know what I'm saying is disgusting to me, but you still haven't decided to apologize to me. And you are one of those who blew up the terrible hatred, ridicule and insults that continue to this day and which I suffer so badly from !!!!* Professor, you read **somehow** badly and even less **somehow** you understand.. But we don't even know if space is quantized or not (but your student David Zoul knows that, **somehow** → http://www.hypothesis-of-universe.com/docs/aa/aa_194.pdf ; http://www.hypothesis-of-universe.com/docs/aa/aa_192.pdf ; http://www.hypothesis-of-universe.com/docs/j/j_204.pdf

and you sanctified his theory of space quantization, by consent!) When you look at the river, you will be on the river bank, so you will see a beautiful continuous environment, yeah. Then you take a drop from the river and look through a microscope and you won't see anything there, yes, but then you take a powerful atomic microscope and suddenly you see individual atoms and the environment was not continuous, it was grainy (professor, every elementary school student knows that when he looks at the foam - a sponge of fine spider fibers, or like nanofibers, that this crumpled continuous environment will appear to us as grains with gaps, as an alternation of "points and points", as an environment of "zeros and ones", such as " nothing and something ", such as" compacted and diluted "… continuous curvature of dimensions packed into balls will appear (from a distance .., from the observer's macro world) to be quantized. 3 + 3d space-time - macro-space, space-time definitely doesn't have to be quantized into Mr. Zoul's Blandria), although our space is so grainy. OTR takes it as some wavy curvature but co but what if that curvature looks something like this →



that it can be from some elementary cells, everything is of course possible and we don't know how it is (In that case, you don't have to insult the professor, who has been proposing "curvature of space-time dimensions" into packages for 40 years and has been presenting on the Internet for at least 20 years and you can read about it on my website; and you even read about those ideas and you he sent for them to Bohnice. The intelligent does not do that.) If we are surprised ... and at the beginning we were terribly surprised at the beginning of the 20th century that energy is quantized, that the momentum is quantized, then why the hell couldn't space itself be quantized at those small distances !!! → **says the anointed head** prof. Kulhánek (And why **the hell** could time not examine itself whether this quantity has / does not have more dimensions? That is, whether space-time 3 + 3 is dimensional. Why not? Understand **that the** time "t" is already expanded on the macroscales of the large universe, and the three time dimensions are numerically almost equal to → "t" = t_1 = t_2 = t_3. ..thefore,

in the equations, the error of "numerical inaccuracy" does not manifest itself in the eighth place, and the "universal rate of passage of time" "t" can be substituted into three spatial coordinates http://www.hypothesis-of-universe.com/docs/c/c_435.jpg ; My nipple from the archive →

3 + 3D space-time

Contemporary physics imperfect time. TIME is a quantity = the phenomenon of existential Existence, it is irremovable, indestructible, irreplaceable, cosmopolitan. It's the name of that quantity. And only after he appeared on the stage "as a state of Being" does the Greatness realize itself into three dimensions and into a common "time-space" přičemž, while still in this situational position it is not yet a flow of time or a ticking ... it is a "stop-state". And only when the "cursor" = material object begins to move along those time dimensions (even length), then it is only possible to talk about the flow-flow of time, so the "observer" can talk about the passage of time. Note: if it seems to us all that the tempo of the passage of time, .. "some", ... is the same in all directions, respectively in the three spatial axes **x, y, z,** then it is strange, but it is similar to with space, which 3D at each point in the Universe also "expands" "at some" pace, that is, the cursor moves by the same interval on all three length dimensions.. Then there is such a ratio of "length interval - cursor shift on three length dimensions" to "age interval - cursor shift on all three time dimensions" that this is equal to "c" = speed of light, c = 1/1; respectively $c^3 = 1^3/1^3$ which is that space-time "before the Bang." After Bang, the cursor moves at different intervals on each dimension of length x, y, z and each dimension of time t_1, t_2, t_3. ((The object then has different speeds vis-à-vis the Observer, passed at rest, see http://www.hypothesis-of-universe.com/docs/c/c_005.jpg)) I know that there is an immediate objection that the three axes **x, y, z** we do not observe different rates of time and therefore physics always substitutes only one into the equations **"t" ≡ t_1 = t_2 = t_3** one same flow rate. **But that's not true**. The truth is that **t_1 < t_2 = t_3**, or **t_1 < t_2 < t_3,** (("t" ≡ $t_1 = t_2 = t_3$ this only applies to photons)) where physics neglects the difference between different flow rates for the reason that the difference is only in eighth place after the decimal point. At the same time, Kulhánek boasted of the maturity of physics, as the measurements of **Hefale and Keating**, through **Chuck**, reached fantastic accuracy in 2010 ; now measures the "curved interval" in 2010 (at 0.1 mm height) using quantum ions, ..; Not even 30 years of that "fantastic" refinement of two different times of time has come to an understanding that time has three dimensions, and the difference in intervals on each of them is neglected. So it is understandable "why" the change of the pace of time in the eighth place after the decimal point is neglected SYSTEMIC and time is considered **"t" ≡ t_1 = t_2 = t_3**... due to the choice of units by people-physics, and also due to the difference in Human sensitivity for the length interval to the time interval, see c = **2.99792460 .10^8** length intervals / **10^0** time intervals. The real universe, ie its space-time, expands in intergalactic spaces at different tempos in time and length, yet in the end global expansion in length is "homogeneous" and aging is homogeneous in the global ... but locally in localities the tempos of time are different: in the galaxy different, in black holes also other (see time dilation), on quasars also and in different gravitational fields also different tempos, see at Earth on satellites, GPS, ... the universe is such a "sponge" with different tempos of time and with local different with expansions of space between galaxies, etc.

Josef, 03/02/2022

… Quantize the space itself into a basic "quantum" of space is called Planck's length, we estimate that it should be 10^{-35} m. That's enough for where we can measure so as not to disprove it nor experimentally (like ha-ha, you did not disprove HDV, but to prove the author going crazy, instead of dialogue). Well, here the world can be quantized like this, and then we have to ask: what's going on there? (What ??, well, packing dimensions into geons, Professor, and they will be matter by nature. That, that's what's happening there! Why are you asking today? Mr. Professor?) Those particles pass from one space cell to another space cell. (Professor, and this is your celestial cardinal mistake, babble, phantasmagoria…, no "spillovers-passing" of material elements from cell to cell takes place in the Universe), and this is a kind of elementary time act (?? God -because in the "space" of the Δx^3 cells the material elements jump and this "jumping" is a "time act" ?? How sad and pathetic…). And now I'm going to try an experiment, I won't do it if I have a perfume bottle here, you spray like that and it smells nice (you chose a wonderful example). and I'll take the bottle and throw a brick with it, it will break and it won't be a hellish stench anymore, yes, it will melt the concentration, but the stench will be, we will feel everywhere in the auditorium, everyone will flood in the back rows (probably kindergarten children and nurseries are sitting in your benches that you have such stupid scientific physics examples). and now take that every molecule moves somewhere chaotically and suddenly macroscopically it gives the impression that there is some force that will make the smell or stink get to the farthest ranks 1: 04: 50h and that's what it is said emergent phenomena that it emerges from that microworld .., in that microworld that those particles commute chaotically, there and in the macroworld a kind of steady flow emerges (after the big bang there is that linear state of vibration-vortex-vortex-foaming, packing 3 + 3 dimensions http://www.hypothesis-of-universe.com/docs/c/c_419.gif changes this way and by starting to "expand" (!) into smaller curvatures of dimensions, which there will be fields ..and spaces 3 + 3 D between galaxies with ever smaller and smaller curvature. At the black hole, the curvature increases, of course), which goes from the broken bottle to the rearmost benches.

We can even write equations where the concentration gradient emerges and the flow is in the direction of that concentration (dtto with the expansion of the dimensions from the foam to the "gravitational involute" http://www.hypothesis-of-universe.com/docs/c/c_239.jpg) well, what if the time emerges in this way, what if the individual jumps are completely chaotic, when the body passes from one body to another, I don't need any time. And this is actually an elementary chaotic time step. And only outwardly in the macro world does a smooth flow of time emerge, which has a direction. This is called emergent time, and today a lot of 1: 05: 47h is bet on it in theoretical physics, as we know it in OTR, that bodies curve time and space around them, and thus co-create it, so that's the macro world. And there is no point in that microworld and that it will only emerge in the macro world. And then it would mean that in the beginning of the universe, the beginning, the word is cruel because the beginning means "in the beginning", and we need time that the word origin loses its meaning here, because in the beginning there was no time… how they jump from one cell to another 1_06.25h. and only in the macroworld does the feeling of some time, some happening flowing from somewhere, emerge from me. So this is called the emergent theory of the passage of time..

(Time to Mr. Kulhánek "came out - appeared - he arose" from events in the microworld where "he was not" and arising from somewhere where he was not, so that "emergence" was suddenly" er. How scientific, emerging scientific theory"). My theory is a common non-emergence: Time is the name of a physical quantity (Artifact Existence) and it is presented in the Universe into three dimensions $\mathbf{t_1 = t_2 = t_3}$ ((*the numerical difference of the intervals of each dimension is negligible and therefore neglected and used "t "The same interval - the same tempo. The change of the interval, ie the rate of passage of time, is observed only at STR*

on the rocket at the rocket commander - dilation of time intervals $t_1 > t_2 = t_3$*... etc. This is a different interpretation*))) as well as the quantity Length : also into three dimensions x ≠ y ≠ z, which are called >space <. And people-objects (rockets, stars, galaxies) move "by dimension" and thus cut length intervals by "on dimension", and dtto on the time dimension, also objects "move through the dimension", thus cutting intervals - seconds, hours years and thus we perceive the flow of time, because: *time does not run for us, but we run for him, after him.* In addition, the theory of "about time" still continues: the space-time 3 + 3D web - network - space-time pad is not stoic and in which all bodies would move and fields would change. No, in every "stop-state" of the whole universe there is a variable pad - a network of 3 + 3D dimensions, and there are also 3 + 3D localities (always more curved dimensions than the pad) that move "along the pad". The pad 3 + 3D raster is not motionless, it expands = it expands and in addition they move on this pad = "material objects like the Earth" float "and we with it, like a rocket, like stars and galaxies…, it all" floats "= it moves on a substrate that is also not stationary, ie Euclidean flat-non-curved as a "raster". It is still necessary to know - to study that even the pace of time that we observe on Earth ((*by our own shift over time*)) that even this pace is not constant throughout the history of the Universe .., changes for the entire Universe. And third, the pace of time in the "stop-state" (anytime, anywhere) on the entire Universe does not mean that the time-passage of time is just "in the divided Universe" in the stop-state everywhere the same. This image at → http://www.hypothesis-of-universe.com/docs/c/c_362.jpg may not only show an uneven distribution of matter in the "stop-state", but you can imagine in this image that the "pace of time "It is different in every locality that time - the flow of time at one pace is not the same for the whole universe, time flows at a different pace everywhere, in dense localities and in a sparse intergalactic environment" and moreover in every historical time "stop-age "In that Universe. So time, Mr. Kulhánek, this is a damn complex artifact about which you know almost nothing…, you do not know whether it changes the pace of flow everywhere, and always, you do not know on which time dimensions it changes faster and on which slower, you do not know how the pace of flow changes in the history of genesis World, you don't know what happens when the time dimensions "wrap" (along with the wrapped length dimensions) that mass elementary particles form, you know nothing about time. You do not know that even today "the relict state of plasma takes place" on the Planck scales and that this boiling of the vacuum is the same as it was after the Big Bang… and if it is not the same, then why.)

Even Eric Verlinde invented emergent gravity in 2010, claiming that gravity does not exist as a force and that everything is a microworld and those statistical manifestations on the outside, that it is the gravitational force, that in fact electricity and magnetism are strong and weak forces, and that gravity, that is, statistics on how this behaves, whether it is right or not, remains to be seen. His theory is being researched and looks very promising, and perhaps two of the co-authors of the strings have already migrated to this theory and say "this is the right direction" we have to go (or HDV). However, it's all beautiful fantasizing (from non-folk phantasmagors), but without that fantasizing there is no progress, yes. (sadly, you only realize this after 20 years of my suffering with HDV, without any help that no one reads, also mainly due to your spitting, which 80% of all average physicists in this society take in the belief that when Kulhánek condemned HDV, so do they - 80% of physicists do not trust it and HDV research). But we must always be aware of the line between fantasy and reality. I get a lot of different emails in which a lot of those people write: "I figured out how the world works here"; usually there isn't a single pattern, but it wouldn't matter, they have some thoughts on how it would work, they're most bothered by shortening lengths and lengthening time intervals, they can imagine it, they don't mind superposition of states, they can't imagine it, they can't think of it but they mostly think of shortening lengths and these things, and I've met a few of these people before. 1: 08: 11h And one meeting here, I'm glad it happened, and I

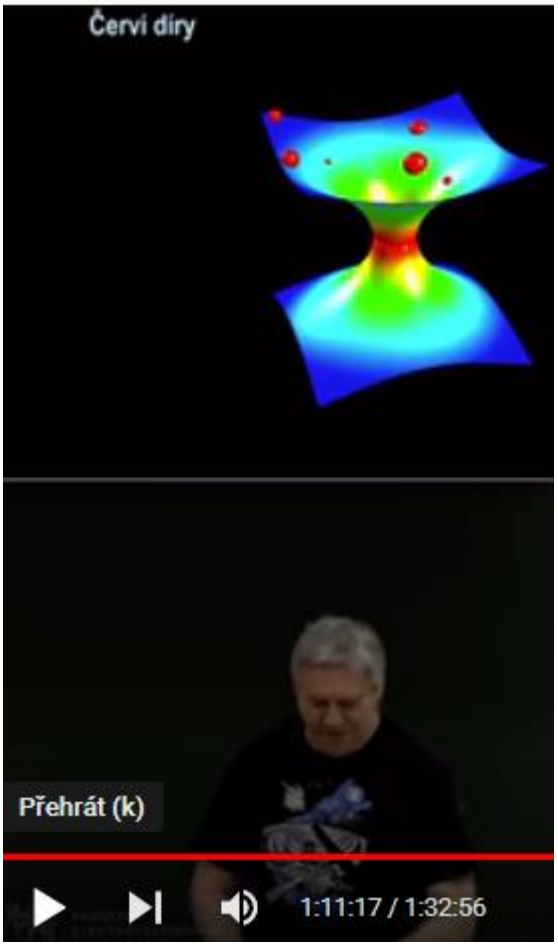
told the person in question: look, according to your theory, this and this should apply, of course, but it's not in nature, isn't it, here's an experiment that he's right against it, you have another one here, and he looked at me so badly, sadly, and said, "*Well, you know, but here's my theory, that's how the world works in my opinion, and I don't mind that it doesn't work for you*." and it is beautiful that we must perceive-distinguish where there is fantasy and where there is reality. Reality is what is verifiable.
(but the truth-reality will never be verified if physicists do not dare to verify, reject, and reject the hypothesis - HDV - before the verification begins, even mocking; they will reject the proposal to verify and claim that it is unverifiable because it was not verified; the Indian's claim that there was a three-headed crocodile in his rainforest, and he saw him when such a crocodile was never observed anywhere… and therefore the Indian lies nemusí he does not have to verify himself because the "Omniscients" know in advance that he is lying) … and this is a theory or hypothesis according to the degree of verifiability; the others are our dreams and fantasies, they are beautiful, I don't take them, yes, he (Verlinde and the others) can dream about how the world works but unfortunately he didn't have the line between dream and reality (or physicists didn't have that line between dream and reality! ?!) When I was a little boy, I repeatedly thought I could fly, that's how I spread my arms and flew here… it was a beautiful dream, it repeated me every day and I never did it, that on the second floor I would go to the balcony and try it, yeah..because one knows the line between reality and that dream 1: 09: 35h and if someone invents a theory of how the world works and starts to force it around, then one should decide and know if it's a dream and a vision or if it's experimentally verifiable realism and most of the people who write e-mails don't make a difference, they don't mind that it doesn't work this way, for him it's a beautiful construction a beautiful dream, and I I don't want to take it from them, it's his hope that everyone eats as they want. On the other hand, without that dream there would be no progress, yes, even every theorist dreams, thinks my visions of how the world could work (**and the point is that** if a layman has a dream-vision-hypothesis, it's logical that he needs to communicate it and… and it's not fair from a scientist to get a layman for insult and effort insult and ridicule. - **About that goes !!!** It is correct for a super-studied scientist to say in the answer at least in simple language (5-10 sentences) "why" the vision is wrong and unrealizable and unverifiable by any experiment. **Enough**. Then ask a layman not to write to him anymore. But super-scientists don't behave that way : they humiliate and insult those "people's thinkers" without counter-arguments to new visions! I have experience and evidence in the archive: if the Czech physicist gave me the answer, in it a few sentences in order to dismiss me, pushed me away, and asked me not to bother him with it, then I [**with a few exceptions about 4-5 people in 20 years**] did. ! I didn't write to him anymore, although he didn't even **give me any counter-arguments** at all**.**) and he finds out that it's not like that, but it's not, so he tries another dream, he tries something else again, right, And suddenly he finds out that it is so, it works. So let's not lose dreams and not lose visions, they are useful, beautiful, but we must never mix them with reality. (In order for us laymen not to mix dream and reality, we need those listener-scientists; however, they reject in advance not only the dream, but also the reading of the dream. Then what is the job, the effort of a folk thinker good… ?? When a Papuan man in the rainforest finds a herbal remedy for cancer, what his discovery is good for is when all scientists derisively refuse to listen to him and try it… and send him to a madhouse. **And that's the problem** of **a)** lay people who have dreams .., and **b)** scientists who have no dreams and send those idiots-StBáky and informers, to fuck by insulting all over the internet after all the discussions and asking for a ban)
Time travel. That's a beautiful thing. (It's beautiful bullshit that's where thousands of hours of thinking of thousands of sci-fi scientists and semi-scientists and directors are drowning in. It's blah-blah-blah. There are 1,000 listeners around the globe and there are 1,000 such narrators,

and everyone lectures and lectures about it, even though he knows it's unnecessary nonsense -- They won't read anything about my HDV.) When A. E. introduced his OTR with distorted space and time, one solution showed that there could be a solution, in fact, a tube, distorted space and time, that would result in some other universe. It started to be called Einstein's Rosen Bridge and immediately net-scif-fi got it and there it started to be called wormholes, and you've heard it and that's a beautiful ideal, I'll jump into a wormhole and emerge at the other end of the universe and I will make such a shortcut and it will be fantastic. Here you see such an example. (Before I let Kulhánka speak, to continue the example, ie in the "blabber-example", I repeat his statement : ***Reality is what is verifiable***, which is a bad statement, a bad doctrine. How can a "superhero" declare in advance and to know that the ABC thing is not reality (!) And therefore it is no longer necessary to examine whether it is verifiable or not, See HDV.

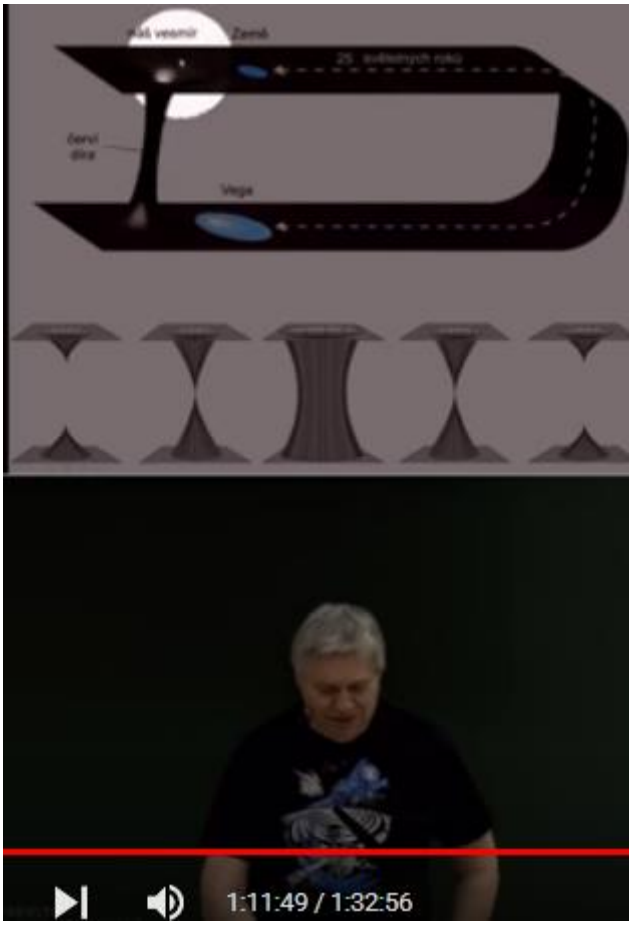
Wormholes are not reality and therefore the scientist is examining their verifiability. HDV is a reality and therefore the scientist does not examine it whether it is verifiable or not.

Whether something is verifiable or not does not depend on the same thing, but on that "superhero" as he decides : to examine (!) Or not to examine (!) Verifiability. E.g. dark matter, wormholes, tachyons, entanglement, partons, blandria, gates between universes… etc.

Babble is what the "superhero" says we're going to investigate. **And the reality** is what the "superhero" says we won't investigate, because we have to know (in advance) that it's unverifiable… and that's it. It's unverifiable. But the nonsense is then examined whether verifiable or unverifiable. *"So let's not lose dreams and not lose visions, they are useful, beautiful, but we must never mix them with reality,"* → said Kulhánek. That's why HDV's dream came true and he lost it in advance, without studying.

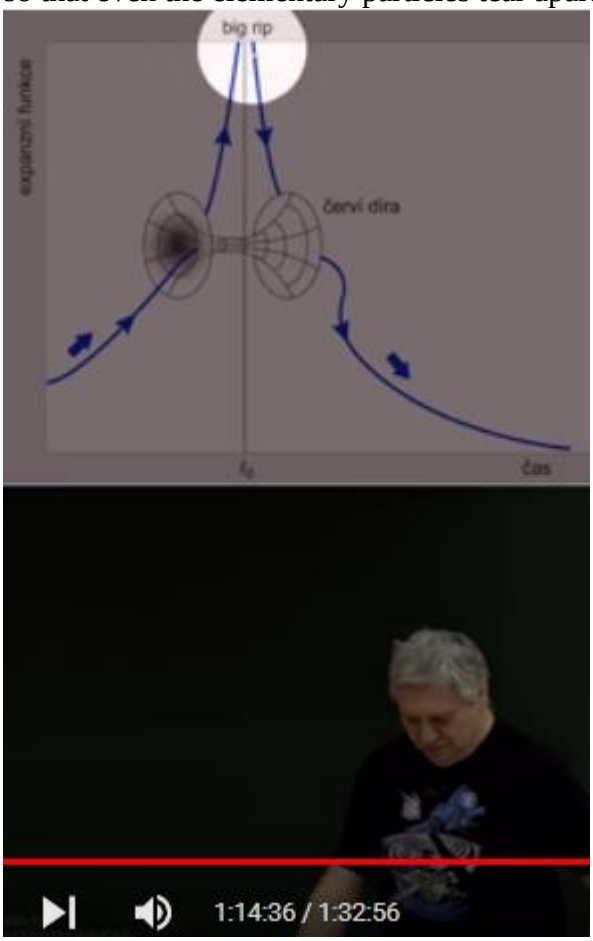


shove into a wormhole and run out on the other side., that's something from the internet. This is our Earth and this is Vega, and in fact it is 25 light years. If we flew our technology 10,000 km per hour, we wouldn't have a chance to get there in one generation, but what if there was a hole like that?



space-time shortcut, and I'd jump in with that ship and emerge in a few seconds at that Vega, that would be great, wouldn't it? And when Einstein's Rosen Bridge was analyzed by methods of stability, it turned out that he would emerge from that general relativity, exist for a while, and then disappear again, that it was not a static solution, it was a dynamic solution, that it was changing, and even that it the emergence is so short that even the fastest particles do not have time to fly through here - a photon on the other side. So it's a beautiful solution to Einstein's equations, (and packages of dimensions will also be possible as a beautiful solution !!) but in nature it probably doesn't work because nothing could go with it anyway. And I've come across this here several times that when OTR tells us something that it's possible, quantum theory says it's not possible, that it's the other way around. And in quantum theory we know the tunneling phenomenon that that particle cannot run here according to the OTR because it gets stuck in the meantime but in quantum there is a tunneling phenomenon and it is able with some small probability to tunnel to the other side.So in principle it would be possible for such a space-time vent to appear somewhere else in space (and in principle it will certainly be possible to solve any "packing - packing" of space-time dimensions into beautiful bushy balls from OTR and QM !!!!, that professor http://www.hypothesis-of-universe.com/docs/c/c_378.gif http://www.hypothesis-of-universe.com/docs/c/c_283.jpg Then my the question is 20 to 30 years old: **what is a ball of those spacetime dimensions?** ???? I already answered in HDV, **you don't** !!, you know Rosen's bridges, you know tunnels, you know vents and…, and more already nothing ???) she will fly through the tunnel phenomenon will have little chance, but she will fly one of a billion particles, not that we would take a spaceship, shove it like this and

she ran to the other side of space, it just can't be affected by probability , she will fly through that tunnel phenomenon with little chance, but she will fly one of a billion particles, not that we would take a spaceship, shove it like this and she ran across the universe, it just can't be affected by probability, probability is zero 1: 13: 46h So in the PRINCIPLE the equations of OTR combined with the tunneling phenomenon can, they allow a particle to fly to another part of the universe in this way (just fairy tales for nothing - you do great) but the probability that the macroscopic object would pass is completely zero and mainly we do not know at all whether all OTR solutions from the PRINCIPLE are implemented in nature. (and from this **principle**, your "scientific" = that you don't know = groping principle, I *can safely say* **that there is a theory of "packing" 3 + 3D dimensions of space-time to realize creations-products-artifacts, which will have the character and behavior and properties of matter.** And for this "statement" there are hundreds of arguments in confrontation with your arguments of the whole physics from A to Z.)
. Finding a solution on paper doesn't mean Nature will do it, yeah. **Yes, and the fact that you scientists have not yet been able to make a "dimension packing" solution on paper does not mean that Nature would not have done it alone without you.** I can do whatever I want with paper construction. But there is such a beautiful construction that is at the level of such visions that our Universe expands with accelerated expansion and should one day tear apart, so that even the elementary particles tear apart.



So what if the universe slipped into a wormhole like this and started collapsing on the other side again - that we would save it like this. So you all probably know what a phantasmagoria it is, but on the other hand it's a beautiful dream (like HDV, for which witches burn themselves when a layman teaches HDV here. If Roset, Penrose or Higgs or Verlinde lectured it, HDV would be in the interest of the smartest physicists and we would work on its representation in THEORY) but as I said at the beginning: I should dream, but we will not consider this a realistic piece of theoretical

physics. No, not this. Finally, I would like to say something about the interconnectedness… Bla-bla …….

……

I have already commented on the same lecture here (I 348), now again with other observations.
JN, kom 25.02.2022 + 24.04.2022

Again, I apologize for the shortcomings caused by both my poor wording and the "google translator"