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This is a translation using google translator: Vojtěch Ullmann: Gravity, Black Holes and the Physics of Spacetime in 1980

<https://astronuklfyzika.cz/GravitCerneDiry.htm>

Byla to jedna z prvních učebnic, kterou jsem **doslova studoval**, už v r. 1981. Z jeho knihy jsem začal chápat stavy a kouzla časoprostoru a přišel jsem na myšlenku, že právě zakřivením rozměrů časoprostoru 3 + 3 do kuliček, do vlnových balíčků, že tímto „křivením dimenzí“, že tímto způsobem samotný Vesmír realizuje-vyrábí „něco“ (částice elementární hmoty), co bude mít povahu hmoty, plus k tomu „něco“, co budeme klasifikovat, kvalifikovat jako vlastnosti hmoty (určitá topologie křivosti), jako je hmotnost, náboj, spin, symetrie, atd. Ullmann říká: kdybychom vzali super-mikroskop a podívali se do hlubin mikrosvěta, tak bychom **stále** viděli plochý časoprostor až do velikosti protonu  $10^{-15}$  m, **stále** plochý prostor do cca  $10^{-20}$  m, tedy měřítko velikosti neutronů a kvarků, a časoprostor by byl **stále** hladký, jen s malým zakřivením „od gravitace“ (((uvnitř protonu nebo elektronu je to ale jinak))). A ... a teď si představte, že zvýšíme hladinu moře ještě o dalších 20 řádů!!

[http://www.hypothesis-of-universe.com/docs/c/c\\_171.jpg](http://www.hypothesis-of-universe.com/docs/c/c_171.jpg), to je doslova šíleně nepředstavitelné zvětšení a pouze (!) na těchto měřících bychom viděli nárůst kolísání zakřivení podélného rozměru, pouze na tomto měřítku  $10^{-40}$  m. Tu bychom viděli bublající kvantovou pěnu z rozměrů časoprostoru, tam vše samotný prostor. Už tehdy r. 1982-83 mě v hlavě svítilo, že takové křivé dimenze jsou uvnitř elementárních částic, že balíčky=geony=kokony, že ty dimenze „(po) zakřivení“ jsou právě stylem stavění „něčeho“, co má pak podobu hmoty, chování hmoty, že je to hmota sama. **Hmota je sbalený stav časoprostorových dimenzí**. A co víc, když si uvědomíte, že pro postavení veškeré hmoty, kterou kolem nás vidíte (atomy, molekuly, sloučeniny, proteiny, DNA...), stačí jen použít !! tři kuličky z dimenzí (tj. U-kvarky, D-kvarky a elektrony), pak je to úžasné, jak jednoduché to je a šíleně realistické... A realistické pro další spojování tří kusů-balíčků do statisíců rozmanitostí, do atomů, molekul, konglomerátů, které vidíme v chemických a biologických učebnicích. **Byl to Ullmann**, kdo mi v letech 1981-83 pomohl k těmto myšlenkám „**dvouveličinového vesmíru**“ pro jednoduchost konstrukce hmoty pouze a pouze zkřivením-zakroucením rozměrů onoho 3+3 časoprostoru. Žádný Bůh, nebo "původ z Ničeho atd." - - - Po 39 letech, dnes v r. 2022 mám další poznatek, **nový údiv**: že tohle, tenhle text a popis nového modelu Vesmíru = HDV, si za 40 let **nikdo nepřečetl anebo neuvědomil si tu krásu a jednoduchost utváření = výrobu hmoty "balením" dimenzí do kuliček...**

<http://www.hypothesis-of-universe.com/index.php?nav=ea> to je přeci úžasné, šíleně logické, bezproblémové, bezrozporné, žádná „magie boží“, není to vznik „**něčeho z Ničeho**“, bez vysvětlení... A navíc k tomu vznik zákonů **postupně** (při zahájení působení, účinku) v interakcích. A není to tápání "proč" to-a-to je to takové a takové..., to vše logicky zapadá. <http://www.hypothesis-of-universe.com/index.php?nav=eb>; <http://www.hypothesis-of-universe.com/index.php?nav=eb>; - - - Takže jsem velmi šokován, (+ ubit nesmírnou dřinou každodenní práce na HDV), že za 40 let si HDV přečetlo desítky, možná několik stovek vědců a **nikoho z nich nenapadlo, že by se mělo zkoumat "proč" lze křivit dimenze do kvantové pěny a v ní že lze „lokalizovat“ balíčky, co budou mít vlastnosti a podobu hmoty....** Proč\_ proč ??? a zda toto zakřivení není způsob, jakým vesmír sám produkuje hmotu po Třesku... v plazmatu, což je extrémně pokrivené prostředí samotného časoprostoru, kde „zakřivení dimenzí je již hmota-plazma“... atd. atd. ., tam prvky atd. **To mě velmi šokuje, že se dodnes nenarodil nikdo, žádný fyzik, kdo by si takových myšlenek všiml a začal na tom pracovat...** proč je rozměr čp zakřivený do kvantové pěny... , a od tam se zakřivení rozšiřuje, ale systematicky, velmi sofistikovaně, podle nějaké matematiky, pravidel, atd. (rozbalení není

jen rozbalení poupěte v růži ... spíš Mandelbrotovy fraktály, ne z jednoho bodu, ale ze všech bodů ve Vesmíru "najednou" ... atd.)

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dtto Translated by a friend who does not speak much English

From his book I have begun to understand states and faery of time space and ideas came into my mind that actually by very curving of dimensions of time space 3+3 into the glomerules – wave-packets by this way the Universe itself realizes – produces „something“ (elementary mass particles) which will has the NATURE of the matter + „something else“ in addition to it as we will classify **as properties** (glomerate states) that „unentangled“ plane time space 3+3D has got not, such as mass, charge, spin, symmetry etc. Mr. Ullmann says: Should we take a super-microscope and observe into the deepness of microcosm so we could see as far as into the size of proton  $10^{-15}$  m still plane time space and this plane time space would have been flatbed up to the size app.  $10^{-20}$  m so to the scale of the size of neutron and quark but still time space would have been smooth, only with a tiny curvature „coming from the gravity“ ((( of course, inside of proton or elektron respectively situation is entirely different ))) and...and now let's imagine that we would zoom that flat area of sea level even more deeply on the level of minus 20 orders !!! This is already madly unimaginable magnification and only (!) on these scales we would observe increasing of fluctuation of the lenght dimension curvatures. Only and only on this scale of  $10^{-40}$  m we would see bubbling quantum foam composed from time space dimensions, the space itself is boiling there. (\*\*\*, The next new things I'll explain later).Already along about that time the light came into my mind telling me that in this way curved dimensions are present inside of all elementary particles, so called geons, that curved dimensions are the base upon which particles of the matter exist, that „those torsions or curvatures“ of dimensions respectively are the very style of the construction of „something“ which then later has got behaviour of the matter, that this is the matter itself. Matter is nothing else but wrapped – balled state of time space dimensions. Likewise if you appreciate that for the construction of the T O T A L matter that you can observe around us ( atoms, molecules, compounds, proteins, DNA etc...) there is necessity of just !! presence of three pieces. Geons: (i.e. quarks U, quark D and elektron) , then it is amazing how everything is easy and madly realistic.... And it is realistic also for the next connections of those three pieces into atoms, molecules, conglomerates that we can see in chemical and biological textbooks.Very Mr. Ullmann helped me in 1981-3 to reach these ideas about „ Two-Quantities Universe, about simplicity of the mass construction by the only and only process of dimensions curving of that 3+3 time space. No God or „Origin from Nothing“ or likewise.“ After 39 years I have different knowledge, a new astonishment: That nobody during 40 years didn't realize it, didn't realize that beauty and simplicity of matter origin by „the rolling and agglomeration“ of dimensions into the glomerules.... It is surely so much *shocking* logic, it is not a God's magic, it is so naturalistic, it's not origin of „something from nothing“, without explanation....this is also not just origin of matter itself but also originating of the laws of nature but what is important, it was GRADUAL, SUCCESSIVE birth (into the order of incidence of these laws too). This is not groping „why“ everything appear such a way how it is look like.All of this the sense of two-quantities state can be explained sensibly. - - It's very shocking me that until present time during 40years nobody was born, no physicist, who would such idea like this noticed and started work on it despite of most of them perhaps my HTQU read .... To answer question ... why time space dimensions are curving into quantum foam ..... Why ????? ...why???? and whether this curving isn't only way of how very Universe produces matter after the Bang ...in plasma of vacuum, which is extremely crooked environment of very time space, where already „ torsion

of dimensions is becoming matter- plasm" ...and so on etc., there particles automatically arise, and so on. It's shocking me very agonizingly, that nobody was born up to the present days, no physicist, who would take of such cogitations note and begin to work on it ... why do dimensions of time space curve into the quantum foam?...and from her the crookedness u n p a c k e s itself but not chaotically but systematically, very sophisticatedly, in accordance with some maths, rules etc. (unwrapping is not just some bud-like in the rose...ether like Mandelbrot's fractals but not from only one point but within all points of the Universe „at a blow“ ... etc. )

Text z jiného překladače  
Text from another translator →

It was one of the first textbooks that I **literally studied**, back in 1981. From his book, I began to understand the states and magic of space-time and came up with the idea that just by curving the dimensions of space-time 3 + 3 into balls, into wave packets that by this "curvature of dimensions", that in this way the Universe itself realizes-produces "something" (particles of elementary matter) that will have the nature of matter, plus "something" that we will classify, qualify as properties of matter (a certain topology of curvatures ), such as mass, charge, spin, symmetry, etc. Ullmann says: if we took a super-microscope and looked into the depths of the microworld, we would **still** see flat spacetime down to the size of a proton 10-15m, **still** flat space up to about 10-20 m, i.e. the size scale of neutrons and quarks, and space-time would be **still** smooth, with only a small curvature "from gravity" (((but inside a proton or an electron it's different )))). And ... and now imagine that we raise the sea level by another 20 orders of magnitude! ! !, [http://www.hypothesis-of-universe.com/docs/c/c\\_171.jpg](http://www.hypothesis-of-universe.com/docs/c/c_171.jpg) , that's literally insanely unimaginable magnification, and only (!) on these scales would we see an increase in longitudinal dimension curvature fluctuations, only on this scale  $10^{-40}$  m. Here we would see bubbling quantum foam from the dimensions of space-time, there the space itself is boiling. Even then, in 1982-83, it dawned on me that such curved dimensions are inside elementary particles, that packages=geons=kokons, that those dimensions "(after) curvature" are precisely the style of building "something", which then has the form of matter, the behavior of matter , that it is matter itself. **Matter is a compressed state of space-time dimensions**. And what's more, when you realize that to build all the matter you see around us (atoms, molecules, compounds, proteins, DNA...), you only need to use ! ! three balls of dimensions (i.e. U-quarks, D-quarks and electrons), then it's amazing how simple it is and insanely realistic... And realistic to further combine the three-piece-packages into hundreds of thousands of varieties, into atoms, molecules , conglomerates that we see in chemistry and biology textbooks. **It was Ullmann** who in 1981-83 helped me to these ideas of a **"two-quantity of the universe"** for the simplicity of the construction of matter only and only by warping-twisting the dimensions of that 3+3 space-time. No God, or "origin from Nothing, etc." - - - After 39 years, today in the year 2022, I have another insight, a **new surprise**: that this, this text and description of the new model of the Universe = HDV, in 40 years **no one has read or realized the beauty and simplicity of formation = production** of matter by **"packing" dimensions into balls....** <http://www.hypothesis-of-universe.com/index.php?nav=ea> it's amazing, insanely logical, seamless, without contradictions, no "magic of God", it is not the emergence of "something from Nothing", without explanation... And on top of that, the emergence of laws **gradually** (at the start of action, effect) in interactions. And it's not groping "why" so-and-so is such and such..., it all fits together logically. <http://www.hypothesis-of-universe.com/index.php?nav=eb> ;

<http://www.hypothesis-of-universe.com/index.php?nav=eb> ; - - - So I am very shocked, (+ beaten by the immense drudgery of daily work on HDV) that in 40 years HDV has been read by dozens, maybe several hundreds of scientists and **none of them thought to investigate "why" dimensions can be warped into the quantum foam and in it that you can "localize" packages that will have the properties and form of matter...** Why, why ??? and isn't this curvature the way the universe itself produces matter after the Bang... in plasma, which is an extremely warped environment of space-time itself, where the "curvature of dimensions is already matter-plasma"... etc. etc. ., there elements etc. ***It shocks me that no one, no physicist, has been born to this day who would notice such ideas and start working on it...*** why the n dimension is curved into quantum foam... , and from there the curvature expands, but systematically, very sophisticatedly, according to some mathematics, rules, etc. (the unfolding is not just the unfolding of a bud in a rose ... rather Mandelbrot fractals, not from one point, but from all points in the Universe "at once" ... etc.)

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[http://www.hypothesis-of-universe.com/docs/c/c\\_262.jpg](http://www.hypothesis-of-universe.com/docs/c/c_262.jpg) škály vzdáleností a času