

String theory and dark matter | Lee Smolin, Sabine Hossenfelder and Tara Shears

<https://www.youtube.com/watch?v=-2ngmVwXteE>

Mrs. Sabino. I saw your video-debate (Sabine, Lee, Tara) about the origin of matter and anti-matter. You say and believe according to the "findings" of physicists that after the big-bang almost the same amount (pieces) of particles and anti-particles were created, ie $1\ 000\ 000\ 000 - 999\ 999\ 999 = 1$, which annihilated and... and the "number one" presents all the matter of this universe (there is no anti-matter left). Etc., etc. The world of matter then evolved through genetic changes as we already know ... in this world, not in the anti-world. I would change this scenario: After big-bang, which is a change from the previous state to the next state, the singularity "appeared" = the location of the "foamy space-time" (boiling dimensions of space-time). It is a chaotic state of the "twisted, twisted, crumpled" dimensions of space-time (I will say 3 + 3 dimensions of space-time, and at the moment without explanation - an explanation of "why". An explanation later.). So this locality = singularity in the birth phase is a state of only 3 + 3 space-time and there is no matter !! In this "foam" of n + n dimensions of space-time, extremely densely curved, clones will be "born" - clones of "stop-states" of packages, balls, geons, eg this visualization http://www.hypothesis-of-universe.com/docs/c/c_416.jpg , which will no longer "boil", but will be a "frozen" state of some topology, some geometric shape (eg annulus - for visualization of ideas only a fictional example http://www.hypothesis-of-universe.com/docs/c/c_423.gif). Repetition: In the foam of the chaotically boiling state of dimensions, "balls", "wave packs" will appear, which in the ensuing reality will be matter, material elements, particles and anti-particles. (Inside the particles, the time dimension will be collapsed "counterclockwise" and for antiparticles, the time dimension will be collapsed clockwise). The other foam remains a "boiling environment" of 3 + 3 dimensions, in which these frozen clones-packets-balls "float" which in the subsequent development will present themselves as elementary particles and will conglomerate together into atoms, molecules, compounds. The "surrounding" foam begins to expand. = expand. Not clones-packages. The geometry of the package dimensions is immutable. And these packages made from the dimensions of two super-basic quantities (3 + 3D) will be presented as particles and anti-particles. But be careful !!! After the big bang, the world (ie space-time) begins to evolve in two directions in terms of the flow of time, the passage of time, the pace of time, and the direction of time. In the World, time flows in one direction (it expands "from the foam" in one direction) and in the anti-world, time will unfold, flow in the opposite direction. Thus: the initial foam of 3 + 3 space-time dimensions will be "divided" into two sectors, into two quadrants = world and anti-world, where in the world time will have a time arrow "in one direction" and in the anti-world "in the opposite direction". These sectors do not divide the universe "by one wall in half", but those sector-walls are everywhere, perhaps at every point in the universe throughout the universe, in every place there is a "sector wall" separating the world of particles from the world of antiparticles. http://www.hypothesis-of-universe.com/docs/h/h_118.jpg It is similar in those packages = balls of matter and anti-matter. In the elementary particle "packs" time = time dimension "right"... , and in the antiparticle "packs" time = time dimension "left" They are symmetrical in spin rotation. And another clarification: From the very beginning, the Universe has existed in two quadrants (world quadrant and anti-world quadrant), which are separated by a "gate-wall" that is not "smooth", it is not a theoretically-geometrically accurate "cut". It is an interface-area, an

interface where the two quadrants "intersect" into each other. We can also talk about the fact that these two worlds, these two quadrants are "mirror" symmetrical (perhaps not 100%?)... Mainly in the sense of the flow of time symmetrical. And here it occurs (during interactions) that the "ball of anti-particle" jumps "from its quadrant" to "our" quadrant, and vice versa. Therefore, it seems to us physicists that asymmetry of matter and antimatter arose after the formation of the universe. Both species live "in their quadrants. In our quadrant, time unfolds "right", in the anti-world, time unfolds in the opposite way, to the left. Even this phenomenon is identical with the production of elementary particles and antiparticles. In the particle the dimension of time is curved, tangled "clockwise" and in the antiparticle the dimension of time is tangled in the opposite way, ie "counterclockwise". Now I will develop this reasoning further: I will anti-the world exists all around us, the anti-world is best shown on the Planck scales, even in a vacuum, there is a "boiling vacuum" all around us, which means not in a temperature-boiling, but that space-time 3 + 3 dimensional "foams" just as it did after the big bang. In a foaming vacuum (foaming space-time dimension), pairs of particles and antiparticles are formed because they "jump" from their quadrants to the neighboring quadrant and annihilate there. The vacuum that "boils" actually represents that "dark energy". Yes, that's the explanation for that energy: everything that "curves" in the universe is in the form of matter (or antimatter). The distortion of dimensions is a mass-forming phenomenon, the distortion of dimensions is a form of the genesis of matter. Matter is not born "from Nothing", but is born by the curvature of space-time dimensions into "balls-geons". (in the ball there is also a time dimension "tangled", twisted, once to the left, with anti-right) (and they then merge into atoms, molecules, compounds, etc. that is another story - chemistry and biology). The essence of matter (+ anti-matter) is the curvature of dimensions). I have further developing my thoughts on my website.

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