

In the YouTube debate is R. Penrose. ; At **25:32h** is the beginning of the demonstration here

(+ my comment in red)

<https://www.youtube.com/watch?v=sGm505TFMbU> --> 28.09.2024 .. ;

Extra Dimensions

... you get a grin on your face. If I mention string theory because it has extra dimensions and maybe some other flavors, there's an even worse grimace. I can tell you where that grimace comes from. You see, all of these things add extra dimensions to spacetime. **What I was doing now was absolutely fundamentally tied to spacetime, which had three spatial dimensions and one time dimension. If you change that, you destroy the theory.** A theory that works in n dimensions, especially mathematics, which is a function that can work in any dimension. And if you say that my theory only works in four dimensions, some people consider that a weakness. You see, no, that's a strength. Absolutely. That's absolutely the point. I see it as a strength because you don't look at the math. Okay, **mathematicians took the twistor theory and generalized it to higher dimensions and everything.** Good stuff, but **it's pure math.** I'm interested in **specifically math.** (!) https://www.hypothesis-of-universe.com/docs/eb/eb_002.pdf → Here is a **specific attempt** to model the structure of the CNO interaction cycle from two characters, i.e. two quantities x-length, t-time and their dimensions.

https://www.hypothesis-of-universe.com/docs/eng/eng_012.jpg ;

https://www.hypothesis-of-universe.com/docs/eng/eng_019.pdf ;

https://www.hypothesis-of-universe.com/docs/c/c_046.jpg The amazing thing about it is that "your" writing technique is a **"sum equation"** using letters and characters of all the alphabets that science has collected around the world (Cyrillic, Latin, Greek, Arabic, Chinese, etc.) and I performed multiplication – **multiplication of two characters**, which also leads to all interactions in the world... for example

<https://www.hypothesis-of-universe.com/index.php?nav=eb>

https://www.hypothesis-of-universe.com/docs/eng/eng_096.pdf ;

https://www.hypothesis-of-universe.com/docs/c/c_123.jpg ;

https://www.hypothesis-of-universe.com/docs/c/c_269.jpg

which applies to the physical world. Whether you can generalize it to 17 dimensions doesn't really interest me. **Error...** And if people are doing string theory, at first, when I heard about string theory, I thought it was a beautiful idea. **Beautiful, but incomplete in terms of ideas.**

https://www.hypothesis-of-universe.com/docs/eng/eng_096.pdf .The universe is not a three-dimensional "matter; space; time", but only a two-dimensional one. Matter (an auxiliary quantity) is made from the dimensions of two main quantities. = That is the idea that physical science lacks to progress. Mr. Penrose, **my work is not perfect**, it is a layman's attempt, but it could be a perfect model if physicists finally read my idea and solved it.

https://www.hypothesis-of-universe.com/docs/c/c_010.jpg ;

https://www.hypothesis-of-universe.com/docs/c/c_082.jpg ;

https://www.hypothesis-of-universe.com/docs/c/c_099.jpg ; And then, when it worked and **they said oh no, it only works in, I think, 26 dimensions**, I originally thought, well, that's not right, you can work on that. **I'm not going to work on that. That's not physics anymore.** It is and it's not physics. I've already "stabilized" my opinion. He stated that: 3+3D (in the first

dimension of the number) are **physical dimensions** from the real macro world, they are very flat for three interactions

(strong, weak, electromagnetic) and gravity. In the microworld, by twisting, curving, packing physical 3+3 dimensions, **all** elementary particles of the standard model (for example, baryons, mesons, leptons, intermediate bosons)

<https://www.hypothesis-of-universe.com/index.php?nav=e> and **other higher dimensions**

(n+m)D (or **very crooked extra dimensions**) are “**mathematical dimensions**” for the construction of “compounds” of conglomerations of basic packages, which will be more complex matter in nature, properties and manifestation https://www.hypothesis-of-universe.com/docs/eng/eng_009.pdf ; https://www.hypothesis-of-universe.com/docs/eng/eng_012.jpg .

Maybe one can declare “extra dimensions” to be the

same, identical dimensions to the physical ones, with the novelty that the basic dimensions are only **more twisted**

https://www.hypothesis-of-universe.com/docs/c/c_411.jpg ;

https://www.hypothesis-of-universe.com/docs/c/c_424.gif ;

https://www.hypothesis-of-universe.com/docs/c/c_427.gif ;

https://www.hypothesis-of-universe.com/docs/c/c_426.jpg ; and so “therefore” we call them new “extra” (mathematical) dimensions, but it is not so. There are always only and only three + three dimensions and at higher “geometric = mathematical” twisting we call them new extra dimensions. Visualization here https://www.hypothesis-of-universe.com/docs/c/c_411.jpg

So you mentioned C and Yang,

Algebraic and Differential Geometry.

End of video clip at 27:09h