

Type: Essay

Topic: Science, cosmology, String Theory

Dr./Professor

Questions for Lawrence Krauss & the Origins Project

28 Dec. 2014 by Nate A. Lindell

Because M.I.T. hosts & created this blog, I feel indebted to them & a kinship to its alumni. Had things worked out more like I'd hoped, I might have found myself attending M.I.T. Thus, when I studied Dr. Krauss's A Universe from Nothing, justifiably a Bestseller (gifted to me by Rainbow Bookstore Co-op in Madison, WI), I was glad to see that you, Dr. Krauss, were one of M.I.T.'s alumni.

Hopefully someone at M.I.T. will pass this on to you.

You'll probably be amused that a prisoner with such an... iconoclastic... history as myself thinks so highly of your work that he wants to link your YouTube videos to his social site (prisoninmates.com). But, c'est vrai!

I hope you'll help me smash icons by answering some questions I have about your forenoted book & others that have come to me while I'm reading/studying Brian Greene's The Hidden Reality.

Here goes

1. What causes/caused the vacuum energy, "dark energy", that your book says is responsible for stretching nothing until it split apart into something (matter & anti-matter)?

This question makes me think of the homonucdi problem faced by cognitive philosophers who evade materialistic explanations for consciousness by attributing it to some smaller mind within ours, which begs the question "what's the basis of that inner mind's consciousness?" & answers nothing.

2. Has there been any progress with identify what causes dark energy, what it's made of, & how it came to be?

3. What does string theory have to say about dark energy?

4. Was the nothing that existed prior to the Big Bang around the primeval atom (that went bang) or was it only part of that atom?

5. If strings lacked any Calabi-Yau manifolds, would they then be nothing, the nothing that the Big Bang made into something? If so, then is the Big Bang the coming into existence of the

dimensions that we experience in our universe?

6. Might our Big Bang have been caused by errant particles (according to string theory, readers, particles, such as electrons, are actually bits of larger strings, but strings too small for us to perceive as anything more than point particles) that jumped from another or other dimensions & incited the creation of our dimensions? Might our Big Bang be one of many in other dimensions that we can't observe/experience, possibly "overlapping" dimensions, part of an inter-dimensional chain reaction? (In other words, might there be an infinite number of other dimensions...)

7. Do strings uniformly fill space & matter, so that the same quantity of strings per cubic centimeter will exist at the Earth's core as will exist in intergalactic space?

8. Strings vibrate & the variety of their vibrations, dictated by the Calabi-Yau manifold they are in, determines the characteristics of the variety of particles that exist. On our macro scale, strings that vibrate create sound & sound makes strings vibrate. How would you reply to Biblical Creationists who might claim that String Theory confirms Genesis 1:3 & John 1:1-3, that God spoke everything into existence. (I'm an Atheist, fyi).

Alright, Dr. Krauss, thank you for taking the time to enlighten me & my readers! 😊 I'd be honored if you'd do so!

Any readers are welcome to weigh in on this article. But keep it as scientific/empirical as you can! Divine inspiration carries no weight unless it comports with reality. If it can't be tested, verified, proven (or disproven), then it's just a possibility, maybe not even that.

Feel free & criticize any of this. Just make a good case! 😊

Respectfully,
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