

June 2013 Email to Professor Brian Greene asking him "Is our multiverse the only multiverse?"

Subject: Professor Greene, "Is our multiverse the only multiverse?"

Dear Esteemed Professor Greene,

Your book "The Hidden Reality: Parallel Universes and the Deep Laws of the Cosmos?" has below as one of its sales lines.

The bestselling author of "The Elegant Universe" and "The Fabric of the Cosmos" tackles perhaps the most mind-bending question in modern physics and cosmology: **Is our universe the only universe?**

I think sales are going well, so the line works (and congratulations on your continued success).

At my website physicsnext.org I have posted the below line suggesting that the above "most mind-bending question" can be bettered:

However, let me do one better and ask: **Is our multiverse the only multiverse?**

In mathematics, there are all sorts of infinities, not just a single infinity, thanks to the work of Georg Cantor.

So let me ask you, which infinity does your multiverse match to? The infinite set of natural numbers OR the infinite set of all real numbers. Because these are two different infinities, one larger than the other. Supposing you can answer, please don't forget to also explain your reasoning that led you to the answer.

Thanks and regards,

Ashish Sirohi

Phsyicsnext.org