

There Is No Rug

Terry Bollinger

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<https://youtu.be/j5dgkouyZfY&lc=UgyQhGbNFrCUo5d75jd4AaABAq>

A Comment on the Closer To Truth post:

John Peacock — Philosophy of Cosmology (January 12, 2023)

<https://youtu.be/j5dgkouyZfY?t=2m52s>

[2:52](#) Peacock “Locally, the detection of space — the expansion of space [or a rug, or perfectly frictionless ice] — is undetectable, which means, physically, it’s meaningless.” Yes, and nicely stated! However, John Peacock, I suspect from your own words that you already know there is a more straightforward and amusingly Zen path: There is no rug. Or ice. Or... space. There is only energy and rules of absolute conservation of its various forms, playing out together in a game that converges to but never reaches asymptotic limits that, at one end, we call spacetime and that, at the other end, we call quantum mechanics. The vacuum has no pressure, but those rules of the cosmic dance do. We misdescribe them.

(“But QED!” Pay attention to the setup. From what source did the electrons and photons at the edge of the Feynman diagram arrive? Did they come from the featureless void of the special relativity vacuum or some decidedly finite, well-defined inertial frame?)

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