

Is the Zero-Point Energy Real?

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Abstract

I consider the arguments to show that the vacuum energy density should receive a large contribution from the zero-point energy. This is the cosmological constant problem, as it was originally framed. I suggest that the matter is interpretation-dependent, and that on certain approaches to foundations, notably Everett's, the problem is a formal one, rather than one based on physical principles.

Keywords: vacuum, zero-point energy, quantum field theory

Subjects: [Specific Sciences: Physics: Cosmology](#)
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