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Does the anthropic principle entail the multiverse?

The anthropic principle says that the universe is extremely fine-tuned to host the life. To explain the fine-tuning of the constants of nature, mainly we have three ways. The first way is to explain that with a more fundamental theory. But the important problem is that how far we can move towards a more fundamental theory? The second way of explaining the fine-tuning of the constants of nature is multiverse theories. Several multiverse theories have been suggested in some areas of physics like cosmology, string theory and quantum mechanics and even some physicists are inclined to put away the principle of experimental verification of the physical theories in order to keep their multiverse theories remain in force. Assuming of the existence of an intelligent designer is the third way. But it doesn't seem to be a scientific solution. In what follows, I explain these three ways and their problems and finally, express an approach on the basis of inference to the best explanation(IBE).

Summary

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