

Review of: "Mileva — a Dialogue About General Relativity as Regional"

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I think this is one very interesting discussion. From my view, the judgment of “ontologically heterogeneous domains should be caused by ontologically homogeneous domains” is quite right. From the whole evolution process of the universe, we can divide it into two phases: one phase from the original Singularity to the Planck Scale; the second phase from the Planck Scale till now. Obviously, the space-time structure of the universe in the first phase is totally different from the second phase. But all our understanding of the universe is driven from the second phase. Thus, it is quite reasonable that our reason cannot understand the space-time and energy structure before Planck Scale. We can call it “ontologically heterogeneous domains were caused by ontologically homogeneous domains”. The detail explain can be seen from the paper(En Wang. Four Dilemmas of The “Superstring Theory” and New Responses from the “Singularity Theory” in the View of Information Ontology. Synthese, 2021 (199)14087–14095. <https://doi.org/10.1007/s11229-021-03411-1>.) Thus, it should rise one new area of mathematical-physical domain, so we can have insight to understand the first phase of the universe from the new mathematical-physical tool.