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[colloquium] Trans-Planckian Censorship, Breakdown of Effective Field Theory and Emergent Cosmology

Thursday, May 12, 2022 3:00 PM (1h 20m)

I will argue that effective point particle field theory will inevitably break down in a rapidly expanding universe. Hence, a non-perturbative formalism is required to understand the very early universe. A new approach based on matrix theory (a proposed non-perturbative definition of string theory) will be discussed, which yields an “emergent” cosmology.

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