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Addressing the so-called quantum/classical “divide” in gravitational contexts, and its implications in cosmology

Tuesday 18 June 2024 15:40 (40 minutes)

We will discuss aspects of the gravity/quantum interphase and the type approaches that can be adopted in its exploration. In so doing we will be forced to consider conceptual difficulties in quantum theory which reveal a fundamental difficulty that must be faced in that pursuit. We will present a path designed to overcome them, and explore some of its implications for cosmology, including the emergence of the seeds of cosmic structure, the expectations about primordial gravity waves, and the concerns about eternal inflation.

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