



DEPARTAMENTO DE FÍSICA
UNIVERSIDAD DE SANTIAGO DE CHILE

SEMINARIO ONLINE

INFLATION, QUANTUM GRAVITY, AND THE BEGINNING OF THE UNIVERSE

Prof. William H. Kinney

Department of Physics | University at Buffalo

Mi 22
SEPTIEMBRE
15.30 horas

ABSTRACT

I will give a pedagogical introduction to the theory of inflation as an extension of the standard "Big Bang" cosmology. Inflation replaces the initial cosmological singularity with a period of exponential expansion preceding the hot thermal equilibrium state of the very early universe, connecting the physics of the very large (the cosmos) with the physics of the very small (particles and fields), closing in a full circle at the first moment of time. Inflation explains the initial conditions for the Big Bang universe, including the generation of primordial perturbations via quantum processes, and leads to the curious prediction of an eternally self-reproducing multiverse. I will discuss cosmological inflation in light of recent observational constraints and developments in quantum gravity.



Meeting ID: 868 4877 4876

Passcode: 379689

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