

Next IPC - June 14 - Raman Sundrum, Maryland University

Meeting ID: 942 2865 5001

Passcode: 802363



ISRAEL PHYSICS COLLOQUIUM

Raman Sundrum
University of Maryland, US

Monday | June 14, 2021 | 16:00

Cosmology and Unification

I will explain how precision measurements and correlations within the Cosmic Microwave Background, Large Scale Galactic Structure and 21-cm Cosmology can probe the fundamental physics of extremely heavy particles, orders of magnitude beyond the reach of terrestrial particle experiments such as the CERN Large Hadron Collider. Intuitively, the production of heavy particles is due to the high “Hawking Temperature” during the universe’s “growth spurt” of Cosmic Inflation. This mechanism is generalized and applied to showing how we can experimentally test our most ambitious gauge-Higgs and higher-dimensional theories, such as (Orbifold) Grand Unification, Dark Sectors, and the Standard Model itself.

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