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High-energy physics and cosmological perturbations: observing new physics at high scales.

Friday 19 July 2013 17:45 (30 minutes)

We discuss how high-energy physics (in particular in the cases of loop corrections, particle production, Lorentz violation) affects the correlators of primordial cosmological perturbation, and how this would be reflected in observations. We study features such as the possibility of enhancements or oscillations, and analyze the sensitivity of observables to the scale of high-energy physics, showing when and how standard intuition from flat-space effective field theory fails.

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