



Universidad del País Vasco
Euskal Herriko Unibertsitatea
The University of the Basque Country

Seminarios de Física Teórica
Fisika Teorikoa: Hitzaldiak

Inflationary models and B-mode polarization cosmology

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Abstract The results of the Planck mission have successfully constrained or ruled out a large set of inflationary models. The recent detection of B-mode polarization at degree angular scales by BICEP2 highlights the current experimental capability to probe the existence of a primordial gravitational wave background (PGWB). In this talk, after a short summary of the observable predictions of inflationary models, I will discuss about how much we might be able to learn about the physics of inflation. I will present recent results on some theoretical implications that a future detection of PGWB would have for discriminating among different models, and some preliminary results on the evaluation of forecast for future B-mode polarization experiments.

Seminar Room, Dept. of Theoretical Physics, Corridor 4.-2.

Wednesday, January 21st, 2015

Time:11:40