

COLOQUIO DE Φ ÍSICA

UNIVERSIDAD DEL VALLE
Departamento de Física &
Posgrado en Ciencias-Física



Semestre I de 2014

50 años del Departamento de Física (1963-2013)

Back to the Beginning

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Resumen

The recent detection of the B-mode polarization in the Cosmic Microwave Background radiation at degree angular scales, implying the existence of a gravitational wave background of primordial origin, has shaken the cosmology community worldwide. If confirmed by other experiments (as currently expected), such a detection would provide us with invaluable information to constrain our theories on the origin of our Universe. In this talk, I will provide a pedagogical introduction to *Cosmological Inflation*, the simplest and most compelling paradigm for the origin of our Universe that generically predicts the generation of a gravitational wave background leading to a B-mode polarization signal consistent with the detected one.

Mayo 22 de 2014, 11:00 AM, Sala de Conferencias del Departamento de Física
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