

Sommerfeld Theory Colloquium

Wednesday, 21th December 2005

at 11.15 h

room 349, Theresienstr. 37 / III

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Measurements of CMB polarization with BOOMERanG

The Cosmic Microwave Background is linearly polarized due to physical processes happening at recombination. Additional polarization could have been imprinted in the CMB by primordial gravitational waves generated during inflation. Here we report on the recent measurement of CMB polarization with the BOOMERanG-B03 balloon-borne experiment. B03 has been the first field test of polarization sensitive bolometers and of the related polarimetric techniques, which can be replicated in large arrays to go after the inflationary polarization. I also review forthcoming activities in this very active field.

Prof. Mukhanov