

ASP2014

Report of Abstracts

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Gravitational Waves

Abstract content

Status: Direct detection of gravitational waves from astrophysical sources is one of the great challenges of contemporary experimental physics. The lecture will try to explain why observation and study of gravitational radiation will give unique information on compact cosmic objects (black holes and neutron stars) and on gravitational physics at extreme conditions. For instance, the study of primordial gravitational waves would uniquely allow the investigation of processes in the very early universe, since gravitons decoupled from the primordial plasma below the Planck scale and hence are able to bring information on very high energy physics which cannot be accessed experimentally in any other way.

Summary

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Status: SUBMITTED

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