

Searches for stochastic gravitational waves in LIGO and VIRGO data

Saturday, July 18, 2009 11:25 AM (25 minutes)

I shall review stochastic sources of gravitational waves and prospects of their detection. A stochastic background of gravitational waves is expected to arise from a superposition of a large number of unresolved gravitational-wave sources of astrophysical and cosmological origin. I shall present the status of the searches for stochastic gravitational wave sources by the LIGO and VIRGO projects. I shall outline the data analysis methods used in these searches and I shall give details of the recent results. I shall discuss implications of these searches for cosmology.

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Session Classification: I. Cosmology and Gravitational Waves

Track Classification: Cosmology and Gravitational Waves