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Primordial Black Holes as the Dark Matter and the Gravitational Wave Signal

vendredi 16 mars 2018 20:05 (15 minutes)

The discovery of gravitational waves produced by the coalescence of 10 solar mass black holes revived the possibility that the mysterious dark matter of the Universe might consist of primordial black holes (PBHs). I review the present constraints on the PBH abundance, discuss PBH production by single field inflation and present the predictions for the gravitational wave signals in this scenario. The talk is based on the following papers arXiv:1705.05567, arXiv:1705.06225, arXiv:1707.01480 and on the work in progress.

Summary

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Classification de Session: Friday afternoon: Cosmic rays and gravitation

Classification de thématique: Theory