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Type: 5 minutes talk

Primordial black holes in braneworld scenarios

Thursday, 16 December 2021 14:57 (7 minutes)

Primordial black holes (PBHs) are not only a fascinating dark matter candidate, but, if detected, they would also be a probe of the very early universe. For these reasons, PBHs have been an object of study for decades and have been considered in multiple scenarios. We are currently studying their properties and evolution in braneworlds. PBHs with masses below a critical value differ from their (3+1)-dimensional counterparts in what refers to their geometry, accretion, spin and evaporation. Understanding these processes and how the current cosmological and astronomical constraints are affected by the introduction of extra dimensions and branes is the objective of our study.

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Cosmology

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Primary author: ALDECOA TAMAYO, Itziar (University of Sussex)

Presenter: ALDECOA TAMAYO, Itziar (University of Sussex)

Session Classification: Gong show talks