

Gravitational Wave Probes of Physics Beyond Standard Model 2

Contribution ID : 0

Cosmic Strings and Primordial Black Holes in the Era of Gravitational - Wave Astronomy

Content :

In the first part, I will present the most recent constraints on cosmic strings using the O3 LIGO/Virgo/KAGRA data. I will then briefly discuss gravitational memory and its consequences for the obtained constraints on the string tension. In the second part, I will address the question whether the LIGO/Virgo detected GWs from binary black hole coalescences are of PBH instead of astrophysical origin. I will conclude with a novel mechanism leading to PBH formation from collapsing cusps on cosmic string loops.

Primary authors :

Co-authors :

Presenter : Dr. SAKELLARIADOU, Mairi (Kings College London)

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