Sixteenth Marcel Grossmann Meeting



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Type: Talk in the parallel session

Closer look at white hole remnants

Monday, 5 July 2021 17:04 (25 minutes)

The idea that, after their evaporation, Planck-mass black holes might tunnel into metastable white holes has recently been intensively studied. Those relics have been considered as a dark matter candidate. We show that the model is severely constrained and underline some possible detection paths. We also investigate, in a more general setting, the way the initial black hole mass spectrum would be distorted by both the bouncing effect and the Hawking evaporation.

Based on Barrau, Renevey, Martineau, Ferdinand Phys. Rev. D 103 (2021) 4, 043532

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