Contribution ID : **212** Type : **Oral talk**

Primordial black holes mergers

Wednesday, 23 October 2024 17:30 (15)

We consider the formation and dynamics of primordial black holes (PBHs) binaries in both the early and late Universe, taking into account clustering effects. The evolution of the PBH merger rate with redshift is obtained and shown to depend on the clustering efficiency. The observation of gravitational waves by the LIGO-Virgo-KAGRA collaboration imposes the constraint that PBHs constitute no more than 10% of the dark matter.

Primary author(s) : STASENKO, Viktor

Presenter(s) : STASENKO, Viktor

Session Classification : Gravitation and Cosmology

Track Classification : Gravitation and cosmology