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Primordial black holes mergers

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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.

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