

Primordial black holes in the era of gravitational wave astronomy



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Abstract:

Black holes might have formed in the very early universe before the big bang nucleosynthesis. Those black holes, known as primordial black holes (PBHs), behave as dark matter, and there are a lot of studies about whether PBHs can explain all dark matter or not. The recent discovery of binary black holes by LIGO has led to a resurgence of the PBH hypothesis. In this talk, I will present my recent study which showed a possibility that LIGO black holes are PBHs. I will also discuss about how to test the PBH hypothesis by future gravitational wave observations.