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Did LIGO detect primordial black holes?

Dr. Qing-Guo Huang (ITP-CAS)



Qing-Guo Huang, a researcher in the institute of theoretical physics, Chinese Academy of Sciences (ITP-CAS). He got Bachelor degree in the University of Science and Technology of China in 2000 and PH.D degree in the institute of theoretical physics, Chinese Academy of Sciences, in 2004. And then he became a postdoc in the Interdisciplinary Center of theoretical physical studies, Chinese Academy of Sciences, and Korea Institute for Advanced Study. He joined ITP-CAS associated with one-hundred talent program in 2010. He mainly focuses on gravitation and cosmology. Up to now, he published around 110 papers in the scientific journals including Phys.Rev.Lett. etc, which have been cited more than 3600 times by others.

Abstract

After the detection of coalescence of binary black holes by LIGO, a key question reads what the origin of these black holes is. Recently, we realize that primordial black holes may provide an explanation of these merger events, and can consist of all of the dark matter in our Universe. We will explore how to probe primordial black holes with multi-band gravitational waves.

