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国台学术报告 NAOC COLLOQUIUM

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Time: Wednesday 2:30 PM, Oct. 10th **Location: A601, NAOC**

Massive black holes along the cosmic history: formation, dynamics and gravitational waves

Dr. Alberto Sesana

University of Birmingham



Dr. Alberto Sesana is a senior lecturer at the University of Birmingham. Got his PhD at Università dell'Insubria in Italy in 2007 and after that he has been working as a researcher in Birmingham, at Pennstate and at the Albert Einstein Institute in Potsdam. In 2014 he has been awarded a URF fellowship of the Royal Society, which brought me to Birmingham. He is an expert of massive black hole and gravitational wave astrophysics and he's an active member of the LISA consortium and of the

European and International Pulsar Timing Array community.

Abstract

Following detection by advance LIGO, gravitational wave (GW) stocks are on the rise. The low frequency GW Universe is likely dominated by signals emitted by a cosmological population of massive black hole binaries (MBHBs). I will review several aspect of MBH astrophysics, including their formation, evolution, interaction with their environment and GW emission. I will then discuss prospect of GW detection with pulsar timing arrays and/or future space based interferometers such as the laser interferometer space antenna (LISA).

All are welcome ! Tea and coffee will be served at 2:15 PM.