

国台学术报告 NAOC COLLOQUIUM

2013 年 第 55 次 / Number 55, 2013

TIME: Thursday, 2:30 PM, Sep. 26, 2013 **LOCATION: A601 NAOC**

Testing the nature of astrophysical black hole candidates



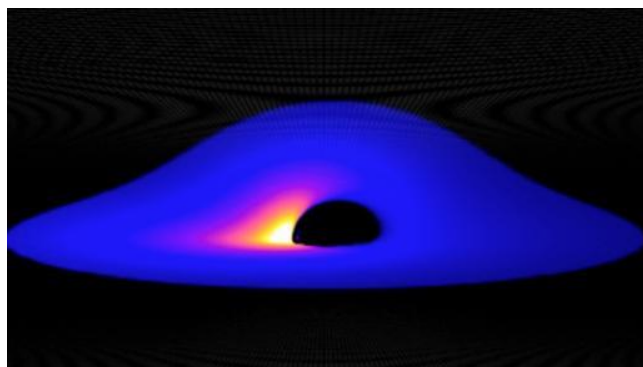
Prof. Cosimo Bambi (Fudan University)

Prof. Cosimo Bambi is currently Young Professor at the Department of Physics of Fudan University. He received the PhD from Ferrara University (Italy) in 2007. He was a postdoc at Wayne State University (Michigan), at IPMU at The University of Tokyo (Japan), in the group of Prof. Dvali at LMU Munich (Germany). He moved to Fudan University at the end of 2012 under the Thousand Young Talents Program. His research interests cover several areas in gravity, cosmology, and high energy astrophysics. He has published about 50 research papers in refereed journals and 2 review papers.

Abstract

Astrophysical black hole candidates are thought to be the Kerr black holes predicted in general relativity, but the actual nature of these objects has still to be verified.

The study of the properties of the electromagnetic radiation emitted by the gas in the accretion disk can potentially test the geometry of the space-time around these objects and confirm the Kerr black hole paradigm. While some exotic solutions can already be ruled out by current data, it is intrinsically difficult to probe the metric around black hole candidates, because non-Kerr objects may mimic the features of Kerr black holes with different spin parameter.



All are welcome! Tea, coffee, biscuits will be served at 2:15 P.M.

You are welcome to nominate speakers to Weimin Yuan (wmy@nao.cas.cn), Mei Zhang (zhangmei@bao.ac.cn), Licai Deng (licai@bao.ac.cn), Xuelei Chen (xuelei@cosmology.bao.ac.cn), Shude Mao (smao@nao.cas.cn)