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Emission from relativistic accretion disks



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Prof. Dr. Ye-Fei Yuan got his PhD from University of Science and Technology of China (USTC) in 1999. Now he is a professor at the Department of Astronomy, USTC. His research field is High

Energy Astrophysics, his recent interest focuses on the dynamics and emission from the relativistic accretion disks.

Abstract

Emission from the relativistic accretion disks around black holes is a probe of the strong gravity. The emission includes the continuous radiation from disk and corona, the broad line emission from an X-ray irradiated disk, and the polarized component from these emissions. In this talk, I would like to a brief review on the dynamics of different accretion flows and how the spectral energy distribution, the line profile and its variability, polarized emission and even the images of the accretion flow could be used to study the physical process in strong gravity near the event horizon of black holes.

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, Jan-Mar), Mei Zhang (zhangmei@bao.ac.cn, Apr-Jun), Licai Deng (licai@bao.ac.cn, Jul-Sep), Xuelei Chen (xuelei@cosmology.bao.ac.cn, Oct-Dec), Shude Mao (smao@nao.cas.cn)