Astronomy Colloquium

Prof. Jian Li

(李剑)

USTC

Binaries Seen in Gamma Ray

Time: 15:00-16:00, 19 September (Thursday), Shanghai time

Venue: N600（TDLI）

Host: Hao Zhou

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Abstract:

Last generation of gamma-ray instruments has brought binaries to the forefront of non-thermal high energy astrophysics. They are well established gamma-ray sources of high energy (HE, 0.1-100 GeV) and very high energy(VHE, >100 GeV), displaying variability on a timescale related to the binary nature. They provide access to different physical conditions on relatively short periodic time scale, which allows access to different conditions for efficient particle acceleration along orbit. The elite sub-groups of binary systems seen in gamma rays are gamma-ray binaries, microquasars, colliding wind binaries, Novae and binaries containing recycled pulsars. I will give a short review of these systems.

Biography:

Prof. Jian Li obtained his Ph.D. from the Institute of High Energy Physics, Chinese Academy of Sciences, in 2013. From 2013 to 2015, he conducted postdoctoral research at the Institute of Space Sciences, Spain. In December 2015, he was promoted to research scientist at the same institute. In 2017-2020, Prof. Jian Li conducted research at Deutsches Elektronen-Synchrotron DESY as a Humboldt fellow. In March 2021, he joined the Department of Astronomy at the University of Science and Technology of China. Prof. Jian Li's research mainly focuses on the galactic high energy astrophysics with a multi-messenger perspective. Prof. Jian Li is currently a full member of the Fermi-LAT Collaboration and has served as the scientific coordinator for the Galactic science group from 2020 to 2022. He is also a member of HXMT, eXTP and EP team. Prof Jian Li is a member and actively involved in LHAASO related science.