東北大学 宇宙創成物理学国際共同大学院プログラム



GPPU Seminar

by Shigeo Kimura (Tohoku University) Time and Date: 15:00-17:00, Dec 18, 2024 Place: Room 541, Science Complex B (H-03) (hybrid)

Registration: "https://us02web.zoom.us/meeting/register/tZMvc-uhrDktHdxh79xkyD-uQqpTHeXCSFRr"

Cosmic high-energy neutrinos are expected to be a smoking-gun signature to identify origins of high-energy cosmic rays. IceCube experiment reported detection of cosmic high-energy neutrinos in 2013, the origin of which became a new mystery in astrophysics. In order to identify the cosmic neutrino sources, multi-messenger observational and analysis technics are now rapidly developing. In this talk, I will review the progress of high-energy neutrino astrophysics, discuss high-energy neutrino emission from the vicinity of supermassive black holes, and introduce our effort to identify neutrino sources using optical observational data.

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"Pursuing Origins of Cosmic High-energy Neutrinos"