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RESCEU コロキウム

東京大学大学院理学系研究科　附属ビッグバン宇宙国際研究センター

日　時：2025 年 11 月 21 日（金）13：30 ～ 15：00

場　所：理学部 4 号館 1 階ピロティ　RESCEU セミナー室

講　師：Sherry Suyu 氏（TUM / MPA）

Cosmology and Supernovae through Cosmic Lenses

Abstract

Strongly lensed supernovae (SNe) are emerging as a new probe of cosmology and SNe. When a SN is strongly lensed by a foreground galaxy, multiple images of the SN will appear around the foreground galaxy at different times. Current and upcoming surveys including Euclid and the Rubin Observatory Legacy Survey of Space and Time will capture hundreds of strongly lensed SNe, expanding the existing sample by two orders of magnitude. These events offer excellent opportunities to: (1) measure the Hubble constant via lensing time delays, shedding light on the Hubble tension, and (2) obtain unprecedented constraints on SN progenitors through early-phase spectra. I will give an overview of the first discoveries of lensed SNe and their cosmological implications.

興味をお持ちの方の聴講を歓迎致します。