

第 62 回 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: 2024 年 7 月 11 日(木) 13:00 ~ 14:30

場 所: 理学部 4 号館 1 階ピロティ RESCEU セミナー室

講 師: Anton Jaelani 氏 (Institut Teknologi Bandung)

Hunting for Gravitational Lensing Systems in Astronomical Images

Abstract

Current and upcoming surveys will substantially increase the number of strong lensing candidates spanning from galaxy to cluster scales by several orders of magnitude compared to the current known count. A gravitational lens system necessitates nearly perfect alignment of a foreground lens and a background source along our line of sight. Lensing provides a distinctive means to investigate the distribution of (dark) matter on large scales and acts as a natural magnifying glass, enabling detailed examination of background sources with high resolution. Consequently, gravitational lenses are exceptionally rare. In my talk I'll discuss some of our recent work on identifying strong lensing using machine learning.

興味をお持ちの方の聴講を歓迎致します。