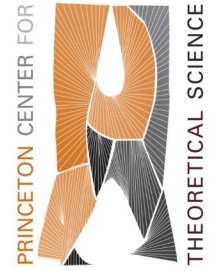


Cosmology Beyond Λ CDM



Joint PCTS/PGI
Workshop

May 7-9,
2025

407 Jadwin Hall
PCTS

Despite its vast successes, the standard Λ CDM model of cosmology makes a number of simplifying assumptions that may not hold true in reality, such as the constancy of the dark energy density and other “fundamental constants” of nature, the absence of self-interactions in dark matter, and the absence of fields beyond the standard model of particle physics (besides dark matter). This workshop will combine a theoretical exploration of ways in which these assumptions can be lifted with discussions of observational and experimental strategies and prospects for detecting deviations from Λ CDM. Adjacent discussions of the different shortcomings of Λ CDM will offer novel perspectives relative to the more common approach of trying to resolve one cosmological tension at a time. The workshop will conclude with a panel discussion to evaluate the plausibility of various generalizations of Λ CDM.

Organizers: Mariangela Lisanti, Anirudh Prabhu, David Shlivko, Olivier Simon

Speakers:

David Andriot	Marc Kamionkowski
Robert Brandenberger	Manoj Kaplinghat
Kimberly Boddy	Keith Olive
Guido D’Amico	Marco Raveri
George Efstathiou	Robert Scherrer
Wendy Freedman	Charles Steinhardt
Joshua Frieman	Jean-Philippe Uzan
Mustapha Ishak-Boushaki	Zachary Weiner

Please scan the QR code to register or go online [HERE](#)

Please Note: Registration is free, but required. PCTS workshops are open only to active researchers, not to the general public (unless otherwise indicated).

