

UCLA Division of Astronomy & Astrophysics

Astronomy Colloquium

Wednesday, April 22 at 3:30 PM
Room 1-434 PAB



Dr. Claudia Scarlata
University of Minnesota

Exploring Reionization: Insights from Multiple Observational Probes

The Epoch of Reionization marks a major phase transition in the history of the Universe, during which the first luminous sources transformed the intergalactic medium from neutral to ionized. Understanding when and how this process occurred is central to connecting early galaxy formation with the large-scale evolution of cosmic structure, and remains a key goal of modern observational cosmology.

I will present an overview of our recent observational efforts aimed at probing different aspects of reionization, including constraints on the escape fraction of ionizing photons from early galaxies, measurements of ionized bubble sizes inferred from Ly α observations, and assessments of biases introduced by both observational limitations and astrophysical effects.

Hosted by professors: Smadar Naoz, Alice Shapley, Erik Petigura