

Colloquium Notice

Anthony Pullen

New York University

Glowing in the Dark: Mapping the Universe with CII emission

Emission from ionized carbon, or CII emission, is a promising candidate for tracing the universe through intensity mapping. In this talk I discuss my latest work, searching for this nearly isotropic CII emission from star-forming galaxies. After giving an brief introduction to intensity mapping, I will motivate the use of CII intensity mapping to probe cosmology and galaxy physics. I will then present the constraints I constructed on CII emission through intensity-galaxy cross-correlations, as well as current research to improve these constraints. Finally, I will present EXCLAIM, a proposed balloon experiment, of which I am a part, that will aim to map CO and CII emission for studying star formation.

Monday

April 16, 2018

Starts at 12:15 PM

Coffee at 12:00 PM

Physics Conference Room, SB B326