

The Physics Department of the University of Wisconsin-Madison

NPAC Forum

(Nuclear/Particle/Astro/Cosmo)

Paul Sutter

IAP

TODAY!

Cosmic Voids as Cosmological Laboratories

Voids are the large, underdense regions in the cosmic web, and they are potentially powerful cosmological probes due to their intimate connection to the growth of structure, their domination by dark energy, and their relative lack of systematics. I will present our latest work to identify voids in galaxy redshift surveys, our efforts to understand their fundamental nature and their connection to dark matter underdensities, and an overview of many diverse cosmological applications, including gravitational lensing, the ISW effect, and the Alcock-Paczynski effect.

Thursday, April 3, 2014

3:00 pm | 4274 Chamberlin Hall