



Department of Physics Colloquium

Friday, November 5, 2010 • 4:00 P.M. • 2241 Chamberlin Hall

cookies & coffee served at 3:30 p.m

Reionization and Cosmology with 21 cm Fluctuations



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Morales**

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Measurement of the spatial distribution of neutral hydrogen via the redshifted 21 cm line promises to revolutionize our knowledge of the Epoch of Reionization (EoR), and may provide a powerful new tool for observational cosmology at redshifts 1-4. I will discuss how we plan to observe the faint 21 cm fluctuations in the face of strong foregrounds, the status of the first generation EoR machines, and the application of 21-cm tomography to cosmography and dark energy measurements after reionization.