

Department of Physics  
Carnegie Mellon University  
McWilliams Center for Cosmology

Colloquium

"Cosmological Reionization"

Abstract

The period of cosmological reionization represents the early childhood of our present universe. It marks many "firsts": the formation of first stars, first galaxies, first stellar black holes that seed the growth of future supermassive black holes, and first metals. In this lecture, I will first place this period in the context of the overall evolution of the universe in the standard cosmological model. Then I review recent observational developments for this important period, and finally discuss the limited physical understanding we currently have and the exciting prospects for future advancement of this frontier both observationally and theoretically.

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Wednesday, September 29, 2010  
4:30 pm  
Doherty Hall A 301D