



# PHYSICS AND ASTRONOMY SEMINAR

## Dr. Geraint Lewis

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### “Lessons Learnt from PAndAS: Cosmic Evolution and the Great Plane of Dwarfs”

#### Abstract

Halos of large galaxies contain the fossil remnants of their formation, filled with tidal debris of accreted systems. Through the Pan-Andromeda Archaeological Survey (PAndAS) we have uncovered these extremely faint streams and shreds around our nearest cosmic neighbour, the Andromeda Galaxy. Here, I will present some of the key results from PAndAS, showing how it confirms our hierarchical picture of galaxy evolution. However, I will also show how the presence of an unexpectedly ordered dance of dwarf galaxies around Andromeda challenges this picture, and maybe even the laws of physics themselves.

Friday, June 20, 2014  
10:30 a.m.  
Elliott Building  
Room 162