

Timothy Heckman – Colloquium 4/13/2017

Title: Feedback and the Evolution of Galaxies and Black Holes

Abstract: I will summarize our current understanding of the crucial effects that feedback from energetic processes have on the formation and evolution of galaxies and supermassive black holes. I will also describe the underlying relationship between these two populations. I will pose several of the most fundamental shortcomings of our current models and then examine how they may be addressed by the effects of feedback, based largely on what we have learned from observations in the local universe. I will do my best to give a "physicist-friendly" talk that minimizes jargon and stresses the basic underlying physical processes.