



# PHYSICS AND AGN Evolution''

## Abstract

An Active Galactic Nucleus (AGN), the process of the central supermassive black hole accreting matter, is a key phase in galaxy evolution. We know that as the black hole grows so does its host galaxy, and that AGN can both bring about and impede star formation. But what mechanisms result in a nucleus becoming active? In this talk we will focus on the external drivers of AGN evolution - that is, how the host galaxy's environment can act to initiate an AGN.

We demonstrate how location of a galaxy within large scale structure can impact its ability to