

Physics Colloquium

Prof. Michael Shull

([University of Colorado](#) and [UNC-Chapel Hill](#))

“Where Do Galaxies End?”

Friday, October 25, 2019

2:15pm-3:30pm

130 Hahn Hall North

This month's newly released Event Horizon Telescope image has focused attention on supermassive black holes. However there are millions more of these in the universe which cannot be seen directly, and are only known through their effects in their host galaxies, specifically the production of active galactic nuclei with spectacular jets of particles and radiation. Such active galactic systems are bright in many wavebands of light and therefore can be seen at great distances, and so can be used to systematically study properties of supermassive black holes and their evolution over the history of the universe. This talk will present results from multiwavelength population studies of active galaxies using data from available large-scale astronomical surveys and custom statistical techniques, and use these results to draw conclusions about the properties and evolution of supermassive black holes.

