

Space Science Seminar
THURSDAY, 2018 May 10
10:30 a.m.
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**Hidden monsters: Cosmic Evolution of
Supermassive Black Holes and Their Host
Galaxies**

Dr. Chien-Ting Chen / Pennsylvania State University

Host: Doug Swartz (Sponsored by USRA)

A crucial yet unexpected piece of the puzzle of the general frameworks of galaxy evolution is supermassive black holes (SMBHs) in galactic centers. Despite the vast difference in physical sizes to their host galaxies, the well-established tight relation between the central SMBH and galaxy bulge properties implies that galaxy and SMBH might follow a similar cosmic evolutionary path. I will discuss results of recent observational studies on several aspects of the SMBH-galaxy coevolution paradigm, including the connection between SMBH and different host galaxy properties, and how we can use extragalactic surveys to constrain the primordial SMBH seeding models.

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