



# PHYSICS AND ASTRONOMY COLLOQUIUM

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### “Coevolution (Or Not) of Supermassive Black Holes and Host Galaxies”

#### Abstract

I review the observed demographics and inferred evolution of supermassive black holes (BHs) found by dynamical modeling of spatially resolved kinematics. Tight correlations between BH mass and the mass and velocity dispersion of the host-galaxy bulge have led to the belief that BHs and bulges coevolve by regulating ea