

Abstract Submitted  
for the APR09 Meeting of  
The American Physical Society

**Supermassive Black Holes and Spiral Structure in Disk Galaxies<sup>1</sup>**

DANIEL KENNEFICK, University of Arkansas, Fayetteville, MARC SEIGAR, University of Arkansas, Little Rock, JULIA KENNEFICK, CLAUD LACY, University of Arkansas, Fayetteville, ARKANSAS GALAXY EVOLUTION SURVEY (AGES) COLLABORATION — Our collaboration has recently identified an interesting relation between supermassive black hole (SMBH) mass and the pitch angle of spiral arms in disk galaxies whose SMBH mass has been measured with some precision. I discuss this relation and the uses to which it might be put in permitting estimates of SMBH mass for distant normal galaxies for which only imaging data is available, as well as its possible significance for our understanding of galactic structure.

<sup>1</sup>NASA EPSCOR

Daniel Kennefick  
University of Arkansas, Fayetteville

Date submitted: 09 Jan 2009

Electronic form version 1.4