

14 : GALAXY NUCLEI & NUCLEAR BLACK HOLES

(14.1) Introduction

(14.2) Finding Nuclear Black Holes

(14.3) Difficulties

(14.4) Case Studies

- (a) M87 : Giant Elliptical
- (b) NGC 3115 : Edge on S0
- (c) M31 : Nearby Luminous Sb
- (d) M32 : Nearby Compact dE
- (e) NGC 4258 : Sbc Galaxy
- (f) Milky Way Nucleus

(14.5) Influence of Nuclear BHs on Star Distributions

- (a) In Situ Growth of Black Holes
- (b) Star Scattering and Orbit Modification
- (c) Binary Black Holes

(14.6) Black Hole Demographics

- (a) A Major New Component of Galaxies
- (b) The Ubiquity of Nuclear Black Holes
- (c) Ties to the Bulge

(14.7) Black Holes and Galaxy Evolution

(14.8) The Galactic Center as Typical Galaxy Nucleus