



PHYSICS AND ASTRONOMY SEMINAR

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“The Puzzle of LINERs and the Warm Ionized Gas in Early- type Galaxies”

Abstract

Ever since their discovery, the nature of low ionization nuclear emission-line regions (LINERs) has been hotly debated. Some authors treat them as AGNs, others argue they are not AGNs but powered by shocks or hot oldstars. No universal agreement has been reached. On the other hand, early-type galaxies frequently contain spatially extended warm ionized gas and have spectra similar to LINERs. How is this large-scale emission related to the nuclear LINERs? Because LINER-like spectrum is the most common spectral type found in early-type galaxies in both nuclear and integrated spectra, understanding its nature is important to numerous topics in astrophysics.

Thursday, December 01, 2011
11:30 a.m.
Elliott Building
Room 062