

C⁺ in LINERs Galaxies

I. Márquez, J. Masegosa

IAA, CSIC, Camino Bajo de Huetor 24, E-18008 Granada, Spain

isabel@iaa.es

M.J. Sempere, J. Cernicharo

Dpto Física Molecular-IMAFF, CSIC, Serrano 121, E-28006 Madrid, Spain

Within the framework of Nuclear Activity in Galaxies, LINERs still constitute a matter of debate. No general consensus does exist about the nature of these galaxies. From an IR perspective, after the work of Kim and collaborators, it became clear that meanwhile nuclear activity increases with far IR luminosity and starburst-like events decrease, the proportion of LINERs remains constant no matter which luminosity they have.

To get some insight about the nature of LINERs we started a project by using the ISO database to characterize the FIR properties of these rather enigmatic galaxies. From the large compilation presented in the Multifrequency Catalogue of LINERs (Carrillo, Masegosa et al 1999) 69 objects have been observed with ISO. In this work we report the results obtained for the ISO LINER sample on the C⁺ line, the most bright line at IR frequencies. The implications for searching high redshift galaxies with the new forthcoming instrumentation are discussed.