

ABSTRACT

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Determining sources of excitation in the center of active galaxies.

The recent launch of Herschel opened a new window in extragalactic astronomy and it is now feasible to observe for example the CO rotational ladder to $J \geq 13$. Recent observations of Mrk 231 in combination with state-of-the-art PDR and XDR modelling allow us to make estimates of the AGN and starburst contribution to the energy input into the ISM in these systems. I will present a PDR/XDR analysis for a number of recent observations from the HerCULES and HexGal programs, and discuss prospects for the study of high redshift counterparts.