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Abstract

We present results from a multiple-line survey of fifteen nearby galactic nuclei conducted with the Owens Valley Radio Observatory millimeter array. Our sample galaxies span the full range of bar strength and include sources with Seyfert, LINER, and HII-region spectral classifications. High-resolution maps of CO(1-0), CO(2-1), and HCN(1-0) emission trace their distributions of molecular gas in different regimes of temperature and density. The inclusion of a control subsample of "inactive" nuclei is crucial in allowing us to test scenarios which relate the kinematic and physical properties of the fuel supply in a host galaxy to the apparent level of accretion activity in its center.

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