

Molecular gas in nearby quasars

Fabienne Casoli (DEMIRM, Observatoire de Paris), Laurent Loinard (IRAM)

We present preliminary results of an ongoing survey of the CO(1–0) line emission in a sample of quasars observed with the Plateau de Bure interferometer. The sample is extracted from a recent survey with the HST of nearby ($z < 0.3$) bright quasars (Bahcall et al. 1997). First results indicate that a large fraction of these quasars host considerable amounts of molecular gas (ranging from several $10^9 M_{\odot}$ to $5 \cdot 10^{10} M_{\odot}$). In one of the sources, PKS2349–014, we have detected the millimeter counterparts of the radio lobes seen at 21 cm.

Bahcall, J. N., Kirhakos, S., Schneider, D. P., 1997, ApJ 479, 642

Abstract submitted for Science with the Atacama Large Millimeter Array, 6 – 8 October 1999, Washington, D. C.