

30 Years of Photodissociation Regions:

A symposium to honor David Hollenbach's lifetime in science
Asilomar, CA, USA - June 28th to July 3rd, 2015

Probing the star forming ISM in high-z quasars

Frank Bertoldi¹

¹ Argelander-Institute for Astronomy, Bonn University, Auf dem Huegel 71, 53121 Bonn, Germany

e-mail: bertoldi@astro.uni-bonn.de

In local massive galaxies there is an amazing correlation between the mass of supermassive black holes and the mass of the stellar component. Through observations of dust infrared emission and molecular and fine structure line emission from high-redshift quasars, we have been exploring the relation between both components at the time of their formation. The vastly improved interferometric capabilities of the VLA, IRAM-PdBI and ALMA allow us to resolve the star formation regions, thus revealing the physical characteristics of the dense, star forming gas.

REFERENCES