

30 Years of Photodissociation Regions:

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

REVIEW TALK

PDRs in starburst and (U)LIRG environments

Eckhard Sturm¹

¹ Max Planck Institute for Extraterrestrial Physics, Giessenbachstr. 1, D-85748 Garching, Germany

E-mail: sturm@mpe.mpg.de

With the recent developments in far-infrared and (sub-)millimeter spectroscopy, provided, for instance, by the Herschel Space Observatory, the ALMA and NOEMA interferometers and the single dish CSO-ZEUS instrument, the studies of extragalactic PDRs in infrared-bright galaxies like starbursts and (U)LIRGs have made tremendous progress and now range from the local universe all the way back to the era when galaxies were assembled. In this review I will provide an overview of recent results in this area and address questions such as: What are the characteristics of PDRs in galactic nuclei, starburst galaxies, and (U)LIRGS and how does that differ from local PDRs? How can observations of PDRs be used to probe the conditions in extreme environments?