

30 Years of Photodissociation Regions:

A symposium to honor David Hollenbach's lifetime in science
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INVITED TALK

The photochemistry of stellar outflows

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In this talk, an overview will be given on the role of (UV) photons in the chemistry of stellar ejecta. On the one hand, I will focus on AGB ejecta where penetrating photons from the interstellar radiation field are key to its chemistry. Furthermore, I will present recent results on photochemistry of ejecta from massive stars such as Wolf Rayet and ring nebula. I will discuss how such environments can be used as laboratories for studying PDRs including the effects of variations in dust properties (carbon dust versus silicates), elemental abundances, X-rays, shocks.

REFERENCES