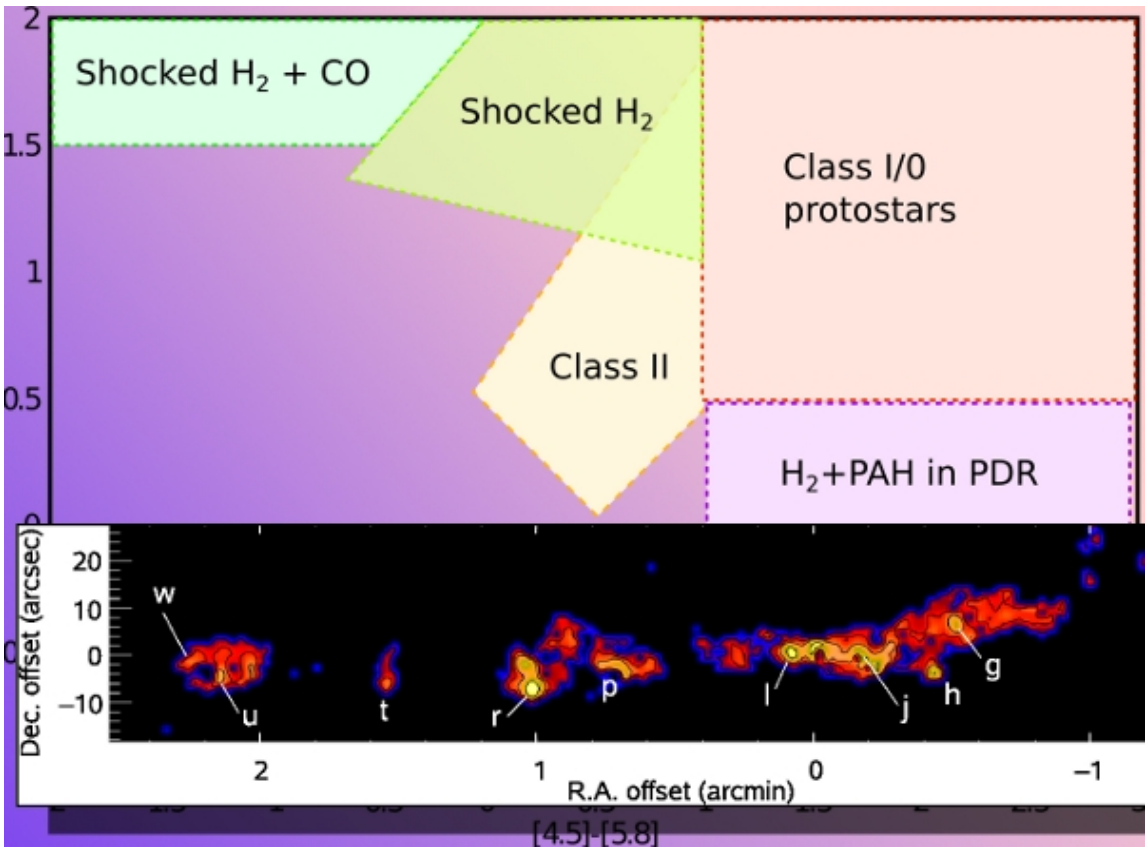
Instituto de Astronomía
Universidad Nacional Autónoma de México
Sede Ensenada, Baja California, México

Seminario de Investigación

Miércoles, 13 de Noviembre de 2013
11:00 hrs, Auditorio IA-Ensenada

Jason Ybarra
(IA-UNAM, Ensenada)

"EXTRACTING INFORMATION USING SPITZER IRAC COLOR ANALYSIS"



In the field of star formation, Spitzer photometry has been used to identify and classify young pre-main sequence stars. However, the information the data provide is not limited to studying the stellar content of these regions. Spitzer IRAC photometry can be used to identify and study regions containing molecular hydrogen and PAH emission. The location of shocked H2 emission in IRAC color space has a strong dependence on temperature, allowing the thermal structure of protostellar outflows to be studied. Additionally, we are modelling the photometry of H2 and PAH emission in PDR regions and will present initial results. These diagnostics are being used to analyze features in the Milky Way Project small bubble catalog.