

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

Seminario de Investigación

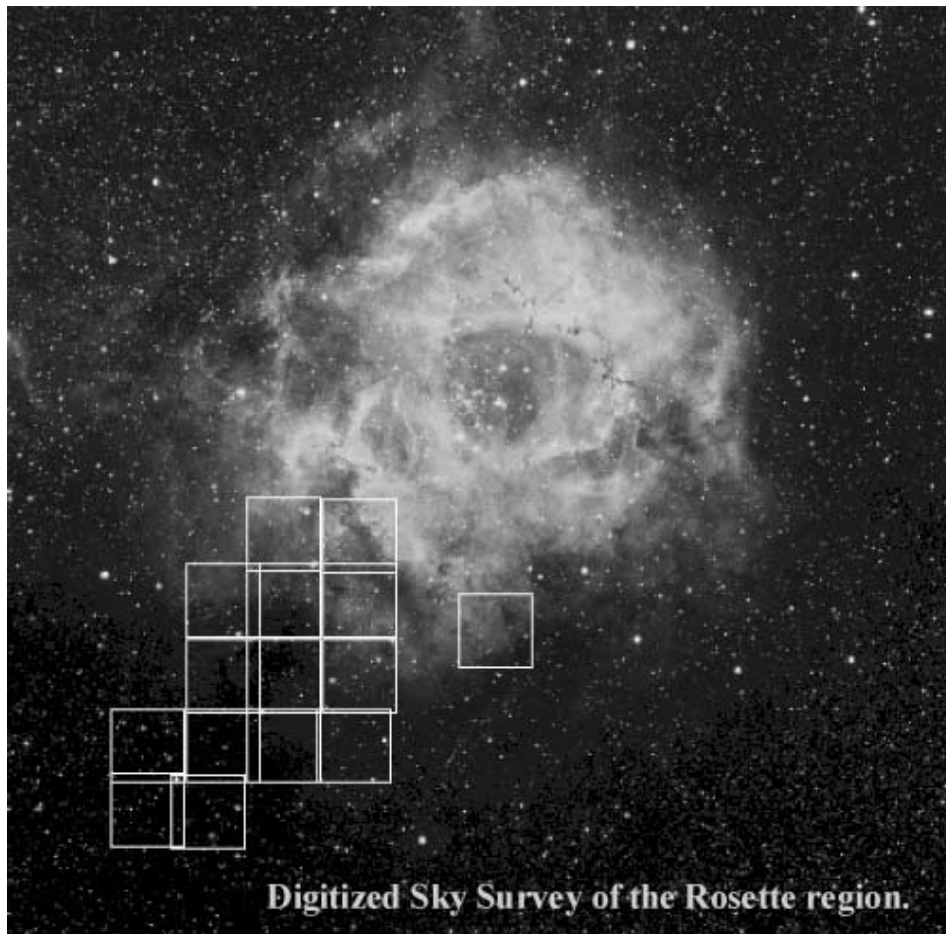
Miércoles, 13 de Diciembre de 2012

11:00 hrs, Auditorio IA-Ensenada

Jason Ybarra

(Dept. de Astronomía, Universidad de Florida)

“THE PROGRESSION OF STAR FORMATION in the Rosette Molecula Cloud



Using Spitzer Space Telescope and Chandra X-ray Observatory data we identify and classify YSOs in the Rosette Molecular Cloud (RMC). We explore the stellar density structure of the cloud using nearest-neighbor (NNM) density analysis and compare that to the gas distribution obtained through NIR extinction mapping. We use YSO ratio mapping to study age progressions in the cloud. The data suggests star formation occurs preferentially in the densest parts of the cloud and that the column density of gas rapidly decreases as regions evolve.