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

Seminario

Miércoles, 22 de Febrero de 2012
11:00 hrs, Auditorio IA-Ensenada

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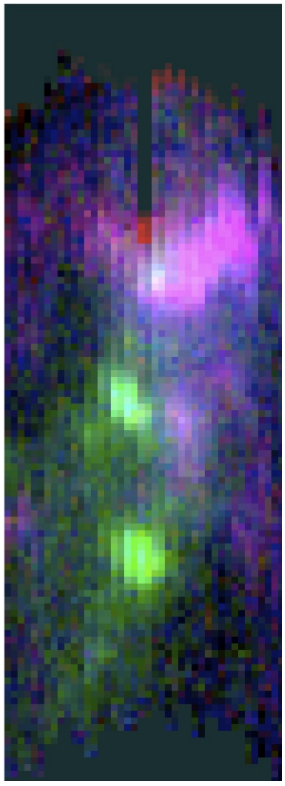
"PROBING THE SUPER STAR CLUSTER ENVIRONMENT OF NGC 1569 USING FISICA"



We present near-IR JH spectra of the central regions of the dwarf starburst galaxy NGC 1569 using the Florida Image Slicer for Infrared Cosmology and Astrophysics (FISICA). The dust-penetrating properties and available spectral features of the near- IR, combined with the IFU capability to take spectra of a field, make FISICA an ideal tool for this work. We use the prominent [He I] (1.083m) and Pa (1.282 m) lines to probe dense star forming regions as well as characterize the general star forming environment around the super star clusters (SSCs) in NGC 1569. For the first time, we find conclusive evidence for embedded star clusters to the north and west of the SSCs. From these observations, we provide a scenario for how triggered star formation is occurring in NGC 1569.