

Properties of proto Brown Dwarfs

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Aim:

to detect and study of proto-BDs
(Class 0 and Class I phase)

Sample:

Several embedded stellar associations
selected from the Spitzer archive.

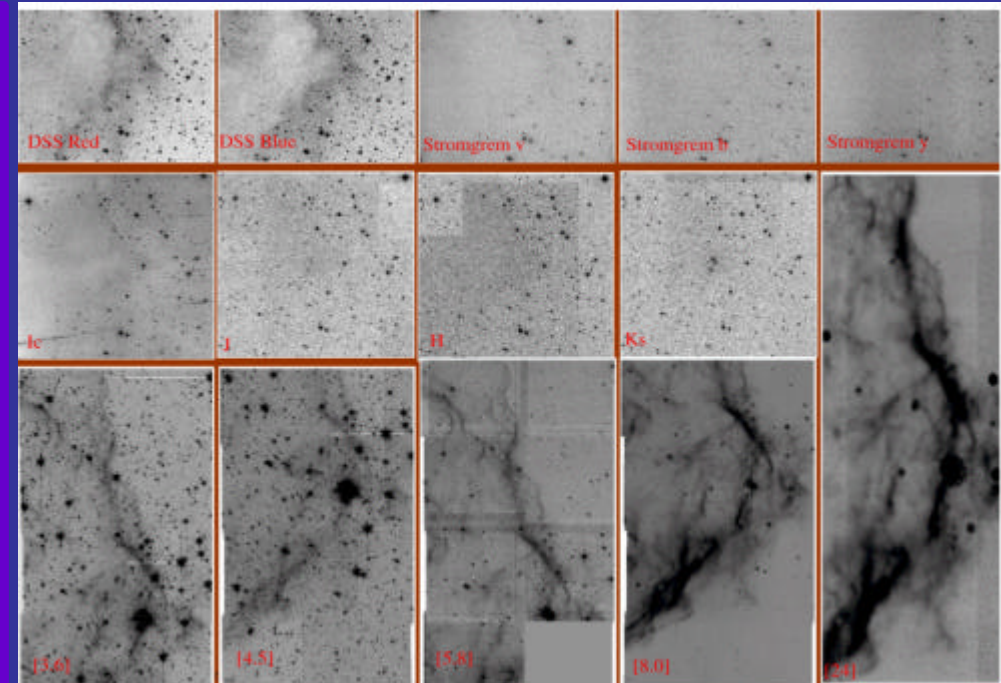
Multiwavelength approach:

Complete SED mandatory to compute:

- disk/envelope mass
- to constrain the final mass
of the proto-BD.

Herschel data:

- Essential to derive their properties
- FIR/smm fluxes:
 - 70, 100 and 170 μm (PACS)
 - 250, 360 and 520 μm (Spire).



A sequence of optical (Digital Sky Survey Red and Blue, Strongem vby and Cousin I), near infrared (J, H and Ks) and mid-infrared (3.6, 4.5, 5.8, 8.0 and 24 micron) for one of our Star Forming Regions. These data have been used to extract the stellar and substellar populations for each SFR based on color-color and color-magnitude diagrams, to classify them in Class 0/I, Class II and Class III objects, and to built Spectral Energy Distributions.