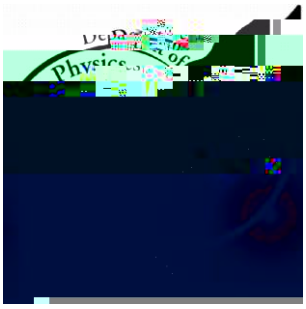

PHYSICS AND ASTRONOMY
SEMINAR

Dr. Tyler Bourke

Harvard-Smithsonian Center for Astrophysics

A Stroll Though Star-Formation, from Low to High

Abstract

The paradigm for low-mass (solar-type) star-formation was proposed ~25 years ago and has matured since then through a wealth of observational data at infrared through millimetre wavelengths. However a number of important problems still remain to be answered. These include (i) does the proposed short-lived ``first hydrostatic core'' phase exist in reality, (ii) do brown-dwarfs (failed stars) form like normal stars, (iii) how do stars form in clustered environments, and (iv) is massive star-formation a scaled up version of low-mass star-formation, or are new physics needed. In this talk I will present results that address all four of these issues and (hopefully) provide some insight into their answers.

Wednesday, June 26, 2013
1:30 p.m.
Elliott Building
Room 060