



## PHYSICS AND ASTRONOMY SEMINAR

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# “The Panchromatic Hubble Andromeda Treasury”

### Abstract

The Panchromatic Hubble Andromeda Treasury (PHAT) is an 828 orbit HST multi-cycle program that is imaging  $\sim 1/3$  of M31's star-forming disk. The survey leverages HST's high spatial resolution and broad wavelength sensitivity to resolve  $\sim 150$  million stars with photometric coverage from the near-UV through near-IR. In this talk, I will give an overview of the survey and describe ongoing science projects, including recent work on M31's star cluster population and progress toward inferring the high mass stellar IMF.

Tuesday, April 09, 2013

3:00 p.m.

Elliott Building

Room 160