

Abstract Submitted
for the TSF07 Meeting of
The American Physical Society

The Effectiveness of Using Type Ia Supernovae as Standard Candles in the Infrared SAM GOODING, Texas A&M University — Using observations of 20 Type Ia supernovae obtained over the past 3 years by the Carnegie Supernova Project collaboration at the Las Campanas observatory in Chile, along with results from previously studied Type Ia supernovae, I will present Hubble diagrams and derived absolute magnitudes at maximum brightness for the objects that have well observed lightcurves in the near-infrared. Type Ia supernovae at maximum light appear to be standard candles in the near-infrared to a precision of ± 0.15 mag or better.

Sam Gooding
Texas A&M University

Date submitted: 28 Sep 2007

Electronic form version 1.4