

# Calibration and Standardization of Large Surveys and Missions in Astronomy and Astrophysics



Contribution ID: 48

Type: **Paper**

## From Hubble's NGSL to Absolute Fluxes

*Thursday, 19 April 2012 14:00 (30 minutes)*

Hubble's Next Generation Spectral Library (NGSL) consists of R~1000 spectra of 374 stars of assorted temperature, gravity, and metallicity. Each spectrum covers the wavelength range, 0.18-1.00  $\mu$ . The library can be viewed and/or downloaded from the website, <http://archive.stsci.edu/prepds/stisngsl/>. Stars in the NGSL are now being used as absolute flux standards at ground-based observatories. However, the uncertainty in the absolute flux is about 2%, which does not meet the requirements of dark-energy surveys. We are therefore developing an observing procedure that should yield fluxes with uncertainties less than 1% and will take part in an HST proposal to observe about 15 stars using this new procedure.

**Primary author:** Dr HEAP, Sara (NASA's Goddard Space Flight Center)

**Co-author:** Mr LINDLER, Don (Sigma Space Corp.)

**Presenter:** Dr HEAP, Sara (NASA's Goddard Space Flight Center)

**Session Classification:** Session 4C

**Track Classification:** Large Surveys and Missions (UV/Optical/NIR)