

## **FROM HUBBLE'S NGSL TO ABSOLUTE FLUXES**

**Sara R. Heap, NASA's Goddard Space Flight Center, Greenbelt MD**

**Don Lindler, Sigma Space Corporation, Lanham, MD**

### **ABSTRACT**

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 up to 15 stars using this new procedure.