



HAO Colloquium Series

(Refreshments served)

Speaker: Matthew (Geoff) Mcharg, USAF Academy

Time: 1:30–2:30 pm

Date: Wednesday, September 21, 2011

Location: CG1-South Auditorium

Title: Peregrine: A deployable solar imaging CubeSat mission

Abstract:

The United States Air Force Academy is building a solar imaging telescope on a CubeSat. The telescope uses a deployable 20 cm diameter photon sieve membrane to achieve twice the resolution of a traditional telescope which can be placed in the 10cm cross section CubeSat form factor. The mission is scheduled to be ready for launch in 2014. A review of the overall mission concept is presented, along with details of the photon sieve, the deployment mechanism and stowage of photon sieve membrane.