The SNAP Telescope
The SNAP Collaboration

SNAP Requirements
Aperture: 2 meters
Field: 1 sq degree
Cover 0.35 to 1.7 um
Diffraction limited >1um
Flat focal surface
Stray light << Zodiacal
Must fit launch shroud
Must survive launch

Design Features
Lightweight Primary mirror
All-CFRP structure
Tripod secondary support
Transverse tertiary axis
All mirrors 290K
Metering structure 290K

Performance
Two meter aperture
f/10.8; EFL=21.66m
1.37 sqdeg annular field
mean geometric blur 2.5um RMS
= 6um FWHM = 0.06 arcsec FWHM
Compare: SiCCD 10.5um pixel
or HgCdTe pixel 18.5um
Airy disk (1um) =
13umFWHM = 0.12arcsecFWHM
20% obstruction sec'y + spider

http://snap.lbl.gov

The Dumbell Nebula, taken with the LBNL CCD Image from NOAO/AURA/NSF
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