

Cyg X-1

Observation plan

We perform a continuous 100 ksec observation with no constraint on source state or orbital phase.

<Adopted filter/mode>

Resolve: Be filter (26um), placing the source in one quadrant of the array

Xtend: 1/8 burst mode

Immediate objectives

- [1] establish a way of analyzing a bright point source
- [2] precisely measure the iron emission/absorption lines and other narrow features, with the goals, as far as data quality due to the brightness of the source allows:
 - [a] reveal warp of the accretion disk
 - [b] study the Fe abundance in the system
 - [c] Check for asymmetric line broadening to constrain weak relativistic Doppler and gravitational shifts
 - [d] Discover whether or not winds are launched from the accretion disks in wind-fed HMXBs