

Cas A

Observation plan

A single 50 ks pointing in the SE region of Cas A centered at RA=23:23:36.7, Dec=+58:48:42.0. No time constraints. Once the observation is scheduled and the roll angle is known, it may be desirable to adjust the pointing. The open position of the filter wheel is chosen for Resolve and the normal window/clocking mode for Xtend.

Immediate objectives

- [1] Detect emission from and measure the abundances of Na, Al, P, Cl, K, Ti, Mn, Cr & Ni.
- [2] Detect and characterize spectral dust signatures.
- [3] Measure Doppler shifts/broadening due to bulk motions and thermal broadening.
- [4] Characterize plasma conditions: electron temperatures, ionization temperatures, ionization timescales, & abundances