SN 1987A

Observation plan

We will perform a single observation with an exposure time of 100 ks. Resolve and Xtend will be operated with an open filter and normal full window mode, respectively.

Immediate objectives

[1] Spectroscopically characterize the ejecta component to constrain the progenitor and the explosion mechanism
[2] Spectroscopically characterize the CSM components to constrain the early phase evolution of the remnant and the progenitor's stellar wind structure
[3] Measure line broadenings to study collisionless shock heating
[4] Search for pulsation from the putative NS