Galactic Center

Observation plan
The PV observation will aim to three positions with 100 ks exposure for each pointing.

- the Galactic center (Sagittarius A*; GC-1)
- the ~6’ eastern side (GC-2)
- the ~6’ western side (GC-3)

No roll angle constraint is requested. The last one is priority C. Resolve will work with no filter. Xtend operating mode is full window with normal clocking.

Immediate objectives

1. Measure the properties of the GC plasmas (electron/ion/ionization temperatures, metal abundances)
2. Measure the dynamics of the GC plasma and X-ray emitting cold gas
3. Probe the photoionization and scattered X-rays from Sgr A* (X-ray reflection nebulae)
4. Probe the KaL1 and KaL2 lines associated with the Fe Kα lines produced by low energy cosmic-ray protons
5. Clarify the origin of the recombination plasma of Sgr A East by plasma diagnostics
6. Monitor Sgr A* flares