

# NGC 3783

## Observation plan

A single 200 ks, continuous exposure (spanning about 4 days), using Resolve (open filter), Xtend (1/8 mode).

## Immediate objectives

- [1] Constrain the full Absorption measure Distribution (AMD) of the outflow
- [2] Determine full dynamics of the highest ionized gas (outflow speed, turbulence)
- [3] Determine the distance of the highest ionized gas directly using variability (or lack of) of the Fe XXV resonance line
- [4] Constrain relative sizes of disk and/or outer corona using Fe XXIV lines in the K- and L-complex
- [5] In case of obscuration, characterize the obscuration in the Fe-K band for the first time
- [6] Search for Ultra-fast outflows (UFOs)
- [7] Study the variability in the red wing of Fe-K
- [8] Reflection studies, in particular by finding the Compton shoulder of the narrow Fe-K line