

## 2S 0921-630

### Observation plan

- 80ks observation.
- Resolve with no filter and on axis
- Xtend in full window mode

### Immediate objectives

- [1] Measure the profiles of the wind emission lines to determine the velocity structure of the wind across the radii where each ion state is produced. The hydrogen like Ly $\alpha$  lines from Si XIV at 2keV, S XVI at 2.6 keV and the He like FeXXV at 6.7 keV will trace lower ionization material than the FeXXVI at 6.9 keV.
- [2] measure the OVII triplet emission to get a density diagnostic from even lower ionization material, and search for similar triplets from He-like Ne, Mg, Si and S.
- [3] compare all these to the predictions of thermal-radiative wind models and magnetic wind models to determine the launching mechanism of the wind
- [4] measure the profile of the Fe K $\alpha$  line and determine its origin