

Abell 2029

Observation plan

- Priority A: 3 pointings, 320 ks in total
 - North P3 (15:10:56.03, +05:50:39.3): 250 ks
 - North P2 (15:10:56.03, +05:47:39.3): 50 ks
 - Center P1 (15:10:56.03, +05:44:39.3): 20 ks
- Priority C: 2 pointings, 300 ks in total
 - West P3 (15:10:32.15, +05:44:39.3): 250 ks
 - West P2 (15:10:44.09, +05:44:39.3): 50 ks
- All observations use the open filter wheel position. Spacecraft roll angle will be optimized to reduce PSF scattering from inner to outer cluster regions once the observations are planned.

Immediate objectives

- [1] Measure the turbulent and bulk motions of the intracluster medium and the contribution of non-thermal pressure support with $\sim 1\%$ accuracy in the outer regions ($\sim R_{2500}$) in a relaxed galaxy cluster, Abell 2029.
- [2] Measure the velocity broadening and bulk motion in the center of a galaxy cluster with a significant sloshing signature.
- [3] Study the multi-temperature gas in the center of a strong cool-core cluster.
- [4] Measure thermodynamic profiles of temperature, density, and entropy out to R_{200} with X_{ten}d to compare to previous results on this and other relaxed clusters with Suzaku.