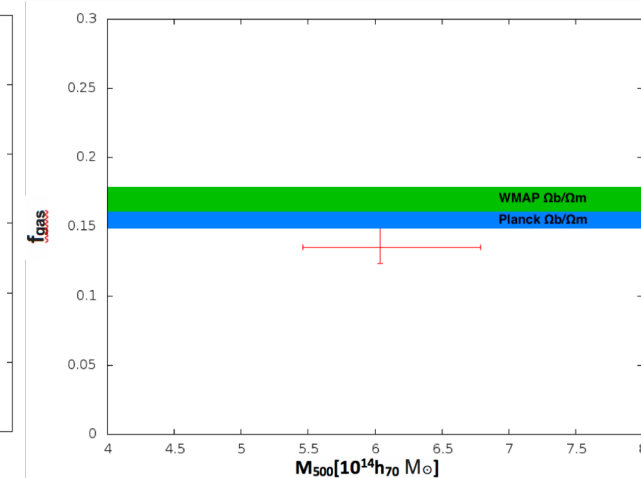
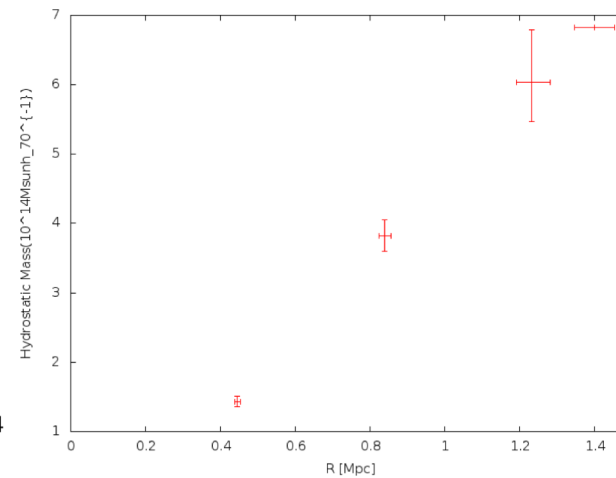
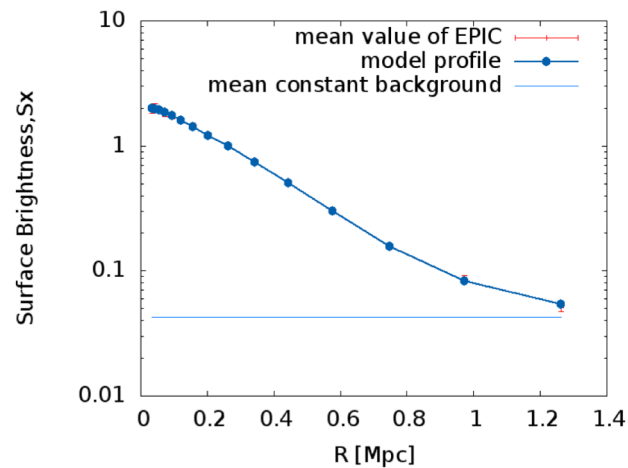
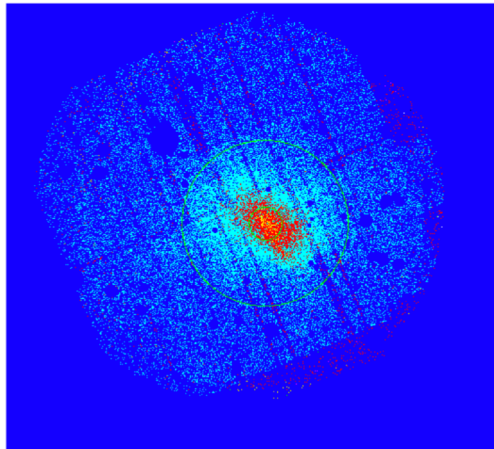


XMM-Newton Observations of the Cool Core Cluster MCXC J1200.4+0320

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- Assuming hydrostatic equilibrium and spherical symmetry, XMM-Newton results (surface brightness, H.E. mass and f_{gas}) of cool core cluster MCXC J1200.4+0320 are presented
- Preliminary results consistent with our previous studies ($f_{\text{gas}} = 0.135^{+0.014}_{-0.011}$)



- Altogether 22 clusters in our sample (all from MCXC catalogue), in the region observed by Hyper Supreme-Cam Subaru Strategic Program (HSC – SSP)

- Next step:

work out the rest of the samples to compare the mean baryon fraction estimated from X-ray and HSC-SSP optical data (H.E. mass vs weak lensing mass) → complementary to the forthcoming X-ray survey from eROSITA