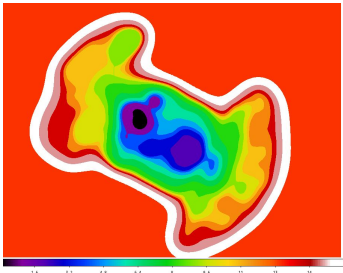
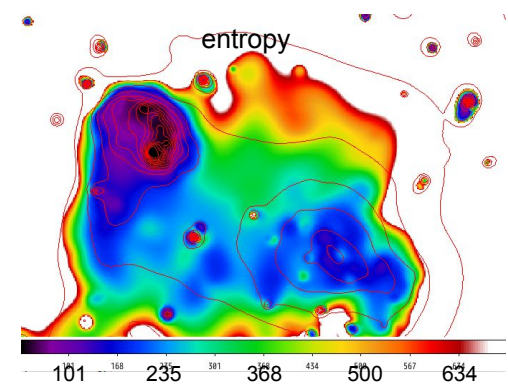
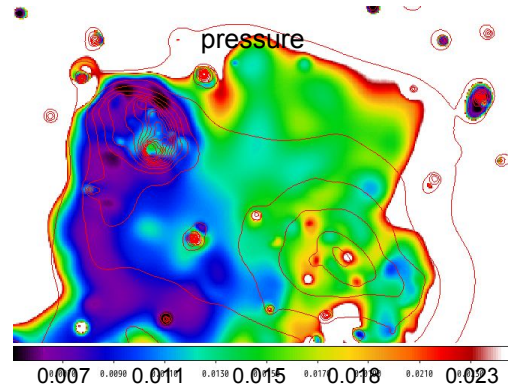
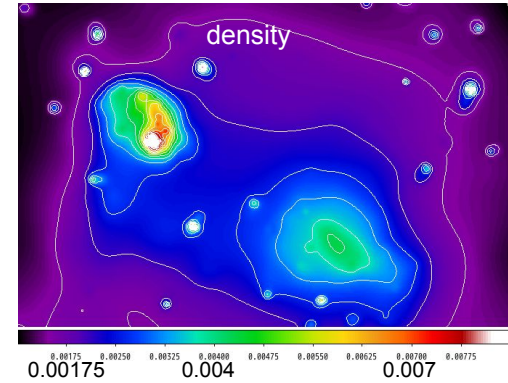
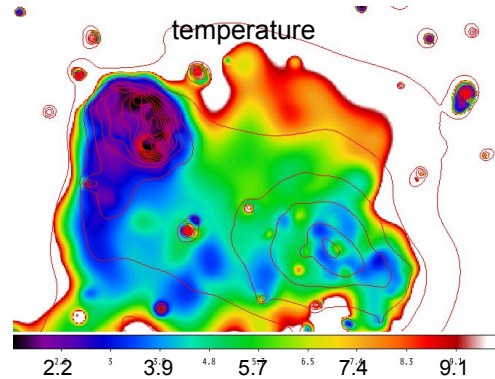


Analysis of 2D temperature and density structure of the merging cluster MCXC J0157.4-0550 using XMM-Newton data

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We analyze XMM-Newton data of the merging cluster MCXC J0157.4-0550 and derive the 2-dimensional temperature, density, pressure and entropy maps from the hardness ratio map.

From the 2D maps, we find this galaxy cluster's merging process.



Next:we use contour binning algorithm to analyze the structure of this merging cluster and derive the temperature from the spectrum.Finally, we compare both results.