U054-078 Room: Ocean B Time: May 17 15:07-15:25

## Hot plasma in clusters of galaxies

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Clusters of galaxies are the most massive objects in the Universe. They contain ~100-1000 galaxies. They are filled with thermal hot plasma with the temperature of ~2-10keV. The plasma is called & #39;intracluster medium& #39;, and it is one of the main components of a cluster. The mass of the intracluster medium is larger than the total mass of galaxies in a cluster. The density of the intracluster medium is very small (~10^-3/cm^3). The magnetic field strength of the intracluster medium is an order of microgauss. I would like to talk about a few topics about the intracluster medium.