

Interaction of galaxies with the intra-cluster medium and ICM metal enrichment

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Galaxies in clusters are not isolated systems, but they interact in various ways with the intra-cluster gas. Processes like ram-pressure stripping, galactic winds and galaxy-galaxy interactions have different time scales and different efficiencies. The best tracer for the interaction is the metallicity of the intra-cluster gas as the metals must have been produced in the galaxies and then transported into the intra-cluster gas. Therefore the comparison of detailed numerical simulations of various transport processes with observed X-ray metallicity maps yield the best insight into the efficiency of the processes and hence on galaxy and cluster evolution.

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