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SEMINAR

Multi-Phase Medium in Galaxy Groups and Clusters

by

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ALL INTERESTED ARE WELCOME

Abstract

Galaxy groups and clusters are the least massive systems where the bulk of baryons are accounted for and also the most massive systems that are gravitationally bound. They contain a wealth of galaxies sampling the broad spectra of galaxy properties, including the most massive galaxies (and probably the most massive supermassive black holes) and galaxies with the highest velocities in the universe. Galaxy groups and clusters are then ideal systems to study cosmic structure formation and the related baryon physics in multi-phase media. In this talk, I will summarize our works on two kinds of multi-phase objects with synergy in galaxy groups and clusters, X-ray cool cores around the central galaxies and stripped tails behind satellite galaxies. New results from multi-wavelength data (including those from MUSE and a recent ALMA large program) will be presented, with the implications discussed.