

Title: The ACCEPT2 database of galaxy cluster properties

Abstract: The current public ACCEPT database of X-ray cluster properties includes radial profiles of temperature, density, entropy, and cooling time. With the new ACCEPT2 project we are currently doubling the number of clusters in ACCEPT, thanks to the increased size of Chandra archive, and expanding the current suite of cluster properties to include uniformly measured profiles of mass along with signatures of dynamical relaxation (e.g. centroid shift, power ratios, surface brightness concentration) and spatially averaged quantities such as global and core-excised temperatures, X-ray luminosities, and metallicities. In this talk, I will outline our data analysis strategy and present the first scientific results derived from our analysis.