

The relative distributions of Dark Matter and Baryons in Galaxy Clusters

A. Biviano

INAF - Osservatorio Astronomico di Trieste

P. Salucci

SISSA

Using a composite of 59 rich galaxy clusters, we determine and compare the radial profiles of dark matter, intra-cluster gas mass, and mass in galaxies. The dark matter and galaxy mass profiles have similar shapes, while the intra-cluster gas mass profile is less centrally concentrated. We compare our results to the predictions of cosmological models.

*BDMH 2004 – Baryons in Dark Matter Halos
5–9 October 2004
Novigrad (Croatia)*