ID contributo: **61** Tipo: **non specificato**

Pressure profiles of galaxy clusters using Planck and ACT

martedì 29 giugno 2021 11:45 (30 minuti)

The pressure of hot gas in groups and clusters is directly linked to the total mass of the halo and several other thermodynamical properties. We have investigated a sample of 31 clusters detected in both the Planck and ACT-MBAC surveys. We reconstructed the average pressure profile over our sample making use of both Planck coverage of large scales and the ACT higher spatial resolution. Our profile covers a radial range going from 0.04 to 2.5xR500. It improves upon previous pressure-profile reconstruction based on SZ measurements. It is compatible, as well as competitive, with constraints derived from joint X-ray and SZ analysis. This work demonstrates the possibilities offered by the combination of multiple SZ experiments with different spatial resolutions and spectral coverages, such as ACT and Planck.

Autore principale: POINTECOUTEAU, Etienne (IRAP)

Relatore: POINTECOUTEAU, Etienne (IRAP)