

XMM-Newton survey of IGM: news for the modified entropy scaling

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Results of XMM-Newton survey of 40 galaxy groups will be presented with accent on the global properties of the gas, such as entropy and pressure. We confirm the modified entropy scaling relation of Ponman, Sanderson & Finoguenov (2003) at central parts of the groups ($0.1 \cdot r_{500}$). The slopes of the entropy profiles of the groups are on average flatter than 1.1 law, typical of the clusters. We present the results of numerical simulations using the GADGET-II code, which are the first simulations capable to reproduce these newly observed trends.

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