

The view on cosmic rays in galaxy clusters from numerical simulations and observations

Wednesday 18 September 2013 14:30 (1 hour)

The intra cluster medium is a dynamically active environment, in which dissipation of large motions and acceleration of cosmic rays are likely ubiquitous processes. I will review the present theoretical uncertainties and firm conclusions on cosmic rays in the intra cluster medium, coming from broad-band observations and the updated cosmological numerical modelling of these systems.

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