

Present and Future Applications of Galaxy Clusters in Cosmology

P. Schuecker

MPE, Garching

My contribution will summarize recent results obtained with clusters of galaxies as probes for cosmology and galaxy evolution. Special emphasis is given to the results obtained with X-ray clusters on the normalization of the matter power spectrum, the density of dark matter, and the equation of the state of the dark energy. I will include a discussion of future planned X-ray missions like DUO as well as the potential to test fundamental aspects of physics with galaxy clusters.

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