

Pierre: The cosmological analysis of X-ray cluster surveys

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We recall the bases of cosmological studies with clusters of galaxies.

We present an original method that aims at determining the cosmological parameters, including the DE equation of state, by considering only the statistics of raw X-ray observables from a well defined cluster population. We illustrate the method with the XXL survey, which is the largest programme of XMM, the X-ray observatory of the European Space Agency.