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Relações massa-concentração em escalas de grupos e aglomerados de galáxias: Impacto nas restrições de massa e de parâmetros cosmológicos.

Galaxy clusters are the universe's largest bound structures, and their use as a cosmological probe depends on their mass estimates, which cannot be measured directly. One of the most promising mass proxies is the surface mass density and related quantities (such as the reduced shear) from gravitational weak lensing. Its theoretical modeling depends on the halo mass density profile, which is described in terms of two parameters: mass and concentration. In this work, we present the implementation of different concentration-mass relations in the Numerical Cosmology Library, and show the cross-check with the Core Cosmology Library and Colossus.

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