

DARK MATTER IN GALAXIES: A REVIEW

PAOLO SALUCCI

Scuola Internazionale Superiore di Studi Avanzati (SISSA), Trieste, Italy

LECTURE 1

Thursday, May 12, 10.30 a.m. - 12 a.m.

Lecture hall, Wing 3

LECTURE 2

Friday, May 13, 10.30 a.m. - 12 a.m.

Lecture hall, Wing 1

ABSTRACT:

Recent observations have revealed the structural properties of the dark and luminous mass distribution in galaxies. These results led to the vision of a new and amazing scenario. The investigation of single and coadded objects has in fact shown that the rotation curves of spirals follow, from their centers out to their virial radii, an universal profile that implies a tuned combination of their stellar disk and dark halo mass distributions. The mass distribution in ellipticals and dwarf spheroidals is found similar. This, alongside with accurate mass modeling of individual galaxies, poses important challenges to the presently theoretically favored Λ CDM Cosmology.



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