

R61a Angular momentum distribution of dwarf galaxies

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We use N-body/gasdynamical simulations to investigate one of the angular momentum problems faced by Cold Dark Matter cosmology - wrong distribution of specific angular momentum of dark matter to match observations of spiral galaxies, if the baryonic material is assumed to have the same angular momentum distribution as the dark matter. We compute the angular momentum distributions of dark matter, gas and stars from our simulations to find out how the angular momentum content differs between these components and what the significance of such difference is to our picture of galaxy formation.