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Galaxy collisions and the missing satellite problem in the cold dark matter model

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Cold dark matter (CDM) cosmology is the standard paradigm of structure formation in the universe. However, it has several unsolved severe problems. The missing satellites problem refers to the overabundance of theoretically predicted CDM subhalos compared to observed satellite galaxies in the Local Group. The most popular interpretation is that the small dark matter halos have extremely inefficient star-forming history. In this study, we investigate the possible existence of the stellar deficient CDM halos using large scale numerical simulations for galaxy collisions between a CDM subhalo and a dwarf galaxy in the Local Group.

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