

Solving CDM problems with BDM DarkMatter

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Abstract content

We propose a new type of Dark Matter, the BDM, derived from particle gauge group theory, where the particles of BDM acquire a large non-perturbative mass at a transition scale E_c . The BDM particles are HDM above E_c and CDM below this scale. BDM solves two of the main problems of CDM, namely the large number of substructure predicted by CDM and the core density profile in the inner region of DM dominated galaxies.

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