

Abstract Submitted
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The Theoretical Basis for and Implications of Observed Scaling Relations between the Primordial NFW and Presently Observed Dark Matter Halos of Milky Way Dwarf Galaxies JOSHUA MONROE, CASEY WATSON, Millikin University — We examine empirical scaling relationships between the cusp mass of Milky Way dwarf galaxies and the core radius and core density of their best-fit Burkert profiles. We explore the theoretical underpinnings of these relationships and discuss the insights they provide regarding the formation and evolution of dwarf galaxy dark matter halos.

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