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Implications of the Observed Scaling Relations between the Dark Matter Halo Parameters and Half-Light Radii of Milky Way Dwarf Spheroidals. ZECHARIAH MILLER, HUNTER SOMERS, BEN WOODALL, CASEY WATSON, Millikin University — We compare observed scaling relationships between the half-light radii and best-fit, Burkert dark matter halo parameters of 13 Milky Way dwarf spheroidal galaxies (dSphs) to similar relationships found for dwarf spiral galaxies. We also consider the theoretical underpinnings of these relationships and discuss their implications for galaxy formation and evolution.

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