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Dwarf Galaxy Population of a Nearby Star-Forming Galaxy and Implications for Dark Matter

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We present our first results from a deep LBT survey of dwarf satellites of nearby star-forming galaxies outside the local group. We present our candidates and report the number and distribution of satellites for our first system. We are sensitive to deep within the ultra faint dwarf and ultra diffuse galaxy regime outside. We discuss the implications of these new observations on the dark matter halo distribution function and dark matter models.

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