

Abstract Submitted  
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**Constraints on Dark Matter and Supersymmetry from LAT Observations of Dwarf Galaxies** ALEX DRLICA-WAGNER, Stanford University, FERMI-LAT COLLABORATION — Due to a large mass-to-light ratio and low astrophysical backgrounds, dwarf spheroidal galaxies are considered one of the most promising targets for dark matter searches via gamma rays. The Fermi Large Area Telescope (LAT) Collaboration has recently published robust constraints on the dark matter annihilation cross section from a combined analysis of 10 dwarf spheroidal galaxies observed by the LAT. These constraints can be extended to prototypical dark matter models and dark matter models derived from a phenomenological scan of the Minimal Supersymmetric Standard Model (the pMSSM).

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