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Dark matter annihilation in the Galaxy: gamma-rays from substructures and dwarf spheroidal galaxies

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The nature of dark matter still evades us. In this talk, I will focus on the gamma-ray flux from dark matter annihilation, which has been tagged as a promising channel for indirect detection. I will present the results of a recent study where we revisited the question of the detectability of such a signal in the classical dwarf spheroidal galaxies of the Milky Way. This work is based on a MCMC analysis of the kinematic data. I will conclude by providing a new ranking in terms of detectability of these objects for present and future gamma-ray observatories.

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