

Title: Dark matter searches in dwarf galaxies and the case of Reticulum II

Abstract: Dwarf galaxies have long been considered a prime target in the search for a dark matter signal from the sky. I will discuss the current status of dark matter searches from dwarf galaxies and present results on the analysis of gamma-ray emission and dark matter content from the recently discovered dwarf galaxy Reticulum II. If the observed gamma ray emission from Reticulum II is due to dark matter annihilation, the annihilation cross section is consistent with an s-wave relic abundance cross section. I will conclude by discussing further tests that are needed in order to test the hypothesis that this emission is due to a conventional astrophysical origin.