

Executive Summary

- What is this contribution about?
We analyze tentative dark matter decay signals from dwarf spheroidal galaxies.
- Why is it relevant / interesting?
Our projections for the detectability of a dark matter decay signal with the telescopes and detectors we considered make them able to critically assess the 3.5-keV line from Bulbul et al. (2014).
- What have we done?
We revised the estimates of the dark matter decay rates and studied the sensitivity of X-ray and gamma-ray telescopes to such signals.
- What is the result?
We obtain slightly weaker but more robust constraints on sterile neutrino mixing angles and decay lifetimes for a heavier dark matter candidate.