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Challenges of Indirect Detection of low mass (below 50 GeV) Dark Matter

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Indirect detection of Dark Matter (i.e. the search for cosmic rays produced by DM annihilations or decays in the galactic halo, or beyond) is usually considered as a promising approach, rightly so. However, when DM is relatively light, say in the sub-WIMP regime, the technique faces some challenges, essentially because astrophysics gets too much in the way. I will give a general overview of DM ID and then discuss some example of studies in the low mass region, in particular related to antiprotons (and solar modulation) and gamma rays (including from secondary radiation: Inverse Compton, bremsstrahlung, synchrotron radiation).

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