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Cosmic ray constraints on singlino-like dark matter candidates

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Recent results from direct detection experiments (Dama, CoGeNT, CRESST), though subject to debate, seem to point toward a low mass (few GeV) dark matter (DM) particle. However, low mass DM candidates are not easily achieved in the MSSM nor NMSSM. As shown by some authors, singlet extensions of the MSSM can lead to GeV mass neutralinos and satisfy relic abundance constraints. We propose here to extract indirect detection constraints on these models in a generic way from cosmic-ray antiproton measurements (Pamela data)

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