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Right-handed sneutrino dark matter

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The superpartner of the right-handed neutrino provides an alternative to the neutralino WIMP dark matter in supersymmetry. We consider the case where this feebly interacting particle is produced via the decay of the long-lived next-to-lightest charged sfermion. After taking into account constraints such as dark matter relic density or big-bang nucleosynthesis, we discuss the discovery prospect at future runs of the LHC notably through the charged track signatures.

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