

Model Independent Approach for Dark Matter Phenomenology: Signatures in Linear Colliders and Cosmic Positron experiments

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We have studied the phenomenology of a dark matter in ILC and cosmic positron experiments based on a model independent approach. We have found that there is a strong correlation between a dark matter signatures in ILC and an indirect detection experiment of a dark matter using positrons. Once the dark matter is discovered in a cosmic positron measurement such as PAMELA, its nature will be investigated in the details at ILC.

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