

Scalars 2019



Contribution ID : 49

Possibility of dark matter detection at future e+e- colliders

Friday 13 Sep 2019 at 14:45 (00h15')

Content :

I am going to discuss possibility of discovering dark matter particles at future e+e- colliders such as CLIC, ILC or CEPC.

Within several simple models, I will try to answer the following questions:

- (1) Where, in the parameter space, is the region allowed by current experimental constraints, that maximizes cross section for DM production at the colliders?
- (2) Could the signal of DM be statistically significant?
- (3) Would it be possible to determine the mass and spin of detected dark particle?

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Session classification : Parallel 2

Track classification : --not yet classified--

Type : --not specified--