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Type: Parallel session talk

SUSY at future colliders: Will e^+e^- colliders be relevant?

Wednesday 5 October 2022 15:05 (15 minutes)

A study of the prospects for discovering or excluding SUSY at various proposed future colliders is presented. The study is based on scanning the relevant parameter space of (weak-scale) SUSY parameters. In particular, I concentrate on the properties most relevant to evaluate the experimental prospects: mass differences, lifetimes and decaymodes. The observations are then confronted with estimated experimental capabilities, including - importantly - the detail of simulation these estimates are based upon. Conclusions on realistic prospects are presented, and the answer to the question in the title is found to be "Yes".

Primary author: BERGGREN, Carl Mikael (FLC (FTX Fachgruppe SLB))

Presenter: BERGGREN, Carl Mikael (FLC (FTX Fachgruppe SLB))

Session Classification: WG 1 - Searches

Track Classification: WG1-SRCH - Physics Potential: Feebly interacting particles, direct low mass

searches