Contribution ID: 29

Type: oral

Dark-sector physics at Belle II

Friday, 29 October 2021 15:00 (20 minutes)

The Belle II experiment is in the unique position of probing a yet uncharted sector of particle physics, which includes hypothetical particles coupling very weekly with the standard model ones that might help explaining the nature of dark matter and other anomalies. Belle II analyzed 0.5 fb-1 of commissioning data to exclude part of the parameter space of models including low mass Z' bosons and axion-like particles. The results of a new search for Dark-Higgstrahlung processes, obtained on the 2019 data set, are presented and longer-term reach on a variety of Dark Sector signatures are also discussed.

Please choose the session this abstract belongs to

Dark matter

Primary author: Prof. LIBBY, James (Indian Institute of Technology Madras)Presenter: MAITI, Rajesh Kumar (H)Session Classification: Session 1