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【341】Search for Dark Sector particles at LHCb

Thursday 7 September 2023 17:00 (15 minutes)

The Dark Sector is a collection of hypothetical particles that would interact very weakly with Standard Model particles. Thanks to its forward instrumentation and its excellent vertex resolution, the LHCb experiment plays a unique role in the search for Dark Sector particles at LHC. Some results from searches for hidden-sector particles (e.g. dark photons, heavy neutral leptons and dark matter candidates produced from heavy-flavour decays) will be presented. An outlook on future measurements in some of these channels, such as axion-like particles decaying into hadrons, will be discussed.

Theoretical Work

Author: ANDREOLA, Pasquale (University of Zurich (CH))

Presenter: ANDREOLA, Pasquale (University of Zurich (CH))

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