Lattice 2023



Contribution ID: 165

Type: Parallel Talk

## Status of the exploratory calculation of the rare hyperon decay

Thursday, 3 August 2023 15:10 (20 minutes)

The rare hyperon decay  $\Sigma \rightarrow p\ell^+\ell^-$  is a flavour changing neutral current process that is sensitive to new physics beyond the Standard Model.

We present the current status of the first exploratory calculation of this decay on the lattice with 340 MeV pions using domain wall fermions.

## **Topical** area

Quark and Lepton Flavor Physics

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