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Portal Chiral Perturbation Theory

Thursday 23 September 2021 11:55 (15 minutes)

Hidden sector induced light meson transitions are a powerful probe for new physics at low-energy fixed target experiments such as NA62. To help study such interactions, we use the portal effective theory framework to construct a portal chiral perturbation theory at leading order that couples the light pseudoscalar mesons to a gauge-singlet messenger of spin 0, 1/2, or 1. We then compute general transition amplitudes of three golden channels for hidden sector searches at fixed-target experiments.

Do you wish to attend the workshop on-site?

yes

Summary

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