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Sigma-Lambda state mixing from lattice QCD+QED

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Mixing in the Σ^0–Λ^0 system is a direct consequence of broken isospin symmetry and is a measure of both isospin-symmetry breaking as well as general SU(3)-flavour symmetry breaking. In this talk we present a novel scheme for calculating the extent of the physical Σ^0–Λ^0 mixing using simulations in lattice QCD+QED and discuss some of its features and initial results.

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