

## **Sigma-Lambda state mixing from lattice QCD+QED**

*Thursday, 6 August 2020 17:20 (20 minutes)*

Mixing in the  $\Sigma^0-\Lambda^0$  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  $\Sigma^0-\Lambda^0$  mixing using simulations in lattice QCD+QED and discuss some of its features and initial results.

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