## PANIC2021 Conference



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## Four-quark operators and SU(3): from non-leptonic kaon decays to vacuum matrix elements (17+3)

Sunday 5 September 2021 17:15 (20 minutes)

Four-quark operators mediate non-leptonic kaon decays and play an important role in inclusive QCD observables. Using their symmetry transformations and the known properties of QCD at low energies, we re-derive and extend generic relations among matrix elements and study their phenomenological implications. They include a determination of the electroweak-penguin contributions to eps'/eps based on hadronic tau-decay data and a study of the interplay of those relations with recent lattice data, which can be used to test the accuracy of large-Nc based estimates of matrix elements and to improve the predictive power in the tau sector.

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