

QCD Axion from Flavour Symmetry

Tuesday 19 June 2018 14:30 (20 minutes)

We show how an accidental $U(1)$ Peccei-Quinn symmetry can arise in a realistic Pati-Salam unified theory of flavour. A QCD axion arises from a linear combination of A_4 triplet favons, which are responsible for fermion flavour structures and thus specific flavour-violating couplings of the axion are predicted. We discuss the prospect of probing such a flavourful axion in future experiments.

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Session Classification: Plenary presentations