

Flavourful axion phenomenology

Friday, 11 October 2019 11:30 (30 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 flavons, which are responsible for fermion flavour structures and thus specific flavour-violating couplings of the axion are predicted. Then, we discuss the phenomenology of a general flavourful axion and the prospect of probing it in future experiments.

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