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Hadronic and leptonic flavour-violating decays into axion-like particles

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The occurrence of flavour-violating decays of hadrons and leptons into light axion-like particles is a generic consequence of spontaneously-broken global U(1) symmetries with flavour non-universal charges, and a powerful probe of such kind of scenarios. A well-motivated example is the flavour-violating QCD axion arising in the context of a Froggatt-Nielsen model of fermion masses and mixing. I will discuss both the latter specific case and the more generic setup with a focus on their phenomenology at flavour experiments.

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