

FLASY 2025 - 11th Workshop on Flavour Symmetries and Consequences in Accelerators and Cosmology



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Flavored Peccei-Quinn symmetries in the minimal ν DFSZ model

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In this talk, I will describe minimal DFSZ models extended with two right-handed neutrinos to realize the minimal type-I seesaw mechanism. The models incorporate flavored $U(1)$ PQ symmetries that account for the observed pattern of quark and lepton masses and mixings. I will discuss the resulting phenomenology, including axion dark matter and cosmology, axion couplings to photons and fermions, highlighting the implications for flavor-violating axion interactions.

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