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Flavonic dark matter

Tuesday 25 June 2024 14:00 (45 minutes)

We present a common solution to dark matter and the flavor problem n the framework of the discrete flavor symmetry.

where the associated flavonic Goldstone boson acts as a good dark matter candidate through the misalignment mechanism.

For light active neutrinos, the Dirac-type mass matrix is preferred to fit the observed neutrino oscillation data with normal hierarchy.

Our model predicts the axion-like photon coupling characteristically different from the standard QCD axion, and only two limited coners of

the parameter space can be probed by the future X-ray and radio observations, respectively.

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