

Dirac neutrino masses and axion + WIMP dark matter from Peccei Quinn symmetry

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Content

We present a framework where the Peccei-Quinn symmetry that gives rise to the QCD axion also forbids neutrino Majorana mass terms. The breaking of this symmetry can also leave a remnant Z_2 symmetry which stabilizes a WIMP dark matter candidate. We briefly discuss the consequences of this mixed axion + WIMP dark matter scenario.

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