

# Neutrino mass and muon $g-2$ with dark U(1) symmetry

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We propose an extension of the Standard Model (SM) for radiative neutrino mass by introducing a dark U(1) gauge symmetry. We show that the tiny neutrino mass and dark matter candidates are naturally accommodated. Motivated by the recent measurement of muon ( $g-2$ ) indicating 4.2 deviation from the SM prediction, we examine how this deviation can be explained in this model.

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