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Scotogenic mechanism from an extended $SU(2)_1 \times SU(2)_2 \times U(1)_Y$ electroweak symmetry

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We propose an extension of the electroweak sector of the Standard Model in which the gauge group $SU(2)_L$ is promoted to $SU(2)_1 \times SU(2)_2$. This framework naturally includes a viable dark matter candidate and generates neutrino masses radiatively *à la Scotogenic*. Our scenario can be viewed as an ultraviolet extension of the Scotogenic mechanism, addressing some of its shortcomings. The resulting phenomenology may be probed through a range of experimental signatures, from precision electroweak measurements to searches for lepton flavor violation.

Abstract

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