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Lepton Flavor Portal Matter I

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The paradigm of portal matter represents a well-motivated extension to models with kinetic mixing/vector portal dark matter. We present a minimal toy model construction using leptonic portal matter that addresses the muon $g-2$ anomaly through chiral enhancement. We further explore a realization of this construction with an extended dark gauge sector in which SM and portal matter fields exist as members of the same dark gauge multiplets, which provides a natural extension of simple portal matter models.

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