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Supersymmetric Alignment Models for muon g-2

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Hierarchical masses of quarks and leptons are addressed by imposing horizontal symmetries. In supersymmetric Standard Models, the same symmetries play a role in suppressing flavor violating processes induced by supersymmetric particles. Combining the idea of spontaneous CP violation to control contributions to electric dipole moments, the mass scale of supersymmetric particles can be lowered. We present supersymmetric models with U(1) horizontal symmetries and discuss CPand flavor constraints. Models with two U(1) symmetries are found to give a viable solution to the muon g−2 anomaly.

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