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SUSY model for muon g-2 anomaly and dark matter, and its implications

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Since constraints from LHC SUSY searches and direct detection experiments of dark matter become increasingly stringent, it becomes non-trivial task to find a SUSY model which can explain the muon g-2 anomaly and the nature of dark matter, simultaneously. In this talk, I will present a relatively simple SUSY model solving these two important issues, satisfying the LHC and other constraints. It is also shown that, although the model is free from flavor changing neutral current processes in the quark sector, lepton flavor violating processes of the muon can be seen at near future experiments when the thermal leptogenesis is responsible for the observed baryon asymmetry.

Content of the contribution

Theory

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