

CP/ flavor-safe SUSY model for light sleptons

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SUSY CP and flavor problems are central issues for SUSY scenarios with light sleptons whose masses are below or around the TeV scale. In particular, these problems are severe when SUSY is responsible for the muon $g-2$ anomaly: the CP problem is more difficult than naively thought, given the effects of anomaly mediation, etc. In this talk, I will introduce a CP/ flavor-safe SUSY breaking mechanism using axion supermultiplet. The strong CP problem is also solved simultaneously. I will also show that the muon $g-2$ anomaly can indeed be explained while circumventing other phenomenological constraints.

Presenter: YOKOZAKI, Norimi