

## Standard model and concepts of supersymmetry

Standard model is almost complete. In last 2013, we found higgs boson and we can explain many physical phenomena to use standard model. But the standard model was not perfect because there are so many things that we cannot explain. For example, those are about dark matter, dark energy, gravity etc. Therefore we need some more comprehensive models and the theory of supersymmetry is the most adequate thing among them. So in my presentation, I will explain some topic about supersymmetry including the relation between SM and SUSY, the basic concepts of SUSY, the particles consisting of SUSY, and also the Minimal Supersymmetry Standard Model which is the concrete model of SUSY.

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