SUSY:
Motivations, Basics, and the Search for Experimental Evidence

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Abstract

We talk about Supersymmetry (SUSY) at a very introductory level, with focus on motivations reasons to believe in it and to hope for (near) future empirical confirmation of its existence. Additionally, we show some basic SUSY formulation, and present the Minimally Supersymmetric Standard Model (MSSM) particle content. We also quickly discuss SUSY breaking, and provide one example of supersymmetric process expected to be detected at experiments such as ATLAS and CMS.

References

[1] I.Aitchison, *Supersymmetry in Particle Physics*