

The Gravitino as Dark Matter for Suppressed SUSY

Wednesday, 22 May 2019 18:00 (1 hour)

Suppressed SUSY is a new way of generating a reasonable model for SU(5) GUT theory coupled to Supergravity. The minimal version predicts an extremely heavy stable gravitino as a candidate for dark matter. The rest of the model appears to be consistent with the standard SU(5) model without SUSY. However, Suppressed SUSY improves things: the X, Y vector boson masses are increased to Planck mass, and the questions about scalar bosons are resolved, as is the issue of the cosmological constant (at tree level). But there is a very serious problem: the predicted heavy gravitino is so heavy that it may be impossible to observe it.

Primary author: DIXON, John (CAP)

Presenter: DIXON, John (CAP)

Session Classification: Poster Session

Track Classification: Dark Matter, Astroparticle Physics