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High Energy Physics - Phenomenology

Title: Focus point gauge mediation in product group unification

Authors: Felix Brümmer, Masahiro Ibe, Tsutomu T. Yanagida
(Submitted on 7 Mar 2013 (v1), last revised 20 Jun 2013 (this version, v2))

Abstract: In certain models of gauge-mediated supersymmetry breaking with messenger fields in incomplete GUT multiplets, the radiative corrections to the Higgs potential cancel out during renormalization group running. This allows for relatively heavy superpartners and for a 125 GeV Higgs while the fine-tuning remains modest. In this paper, we show that such gauge mediation models with "focus point" behaviour can be naturally embedded into a model of SU(5) x U(3) product group unification.

Comments:	19 pages, 2 figures; v2: discussion extended, references added
Subjects:	High Energy Physics - Phenomenology (hep-ph)
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