

Recommendation: publish after minor changes.

Comments: This paper discusses new solutions in supersymmetry breaking through gravity mediation involving hard breaking terms. These solutions are used to construct of a new supersymmetric extension of the Standard Model, the S2MSSM. The mass spectrum of this model is analysed assuming simplifying assumptions.

The results of this paper are interesting and well presented. However, two minor changes should be made to the manuscript before it can be published:

- 1) On page 4, in the definition of the model, the author writes "we restrict ourselves to a  $Z_3$  invariant  $W_0(\Phi, U, Z)$  superpotential (only cubic terms)". This statement should be justified (e.g. by imposing some symmetry).
- 2) On page 5, the author writes "Since there are no interactions between the hybrid and the observable sector in the  $W_0$ ". I reckon this should read "in the superpotential  $W_0$ " or simply "in  $W_0$ ".