



ID de Contribution: 65

Type: **Ordinary**

## **Status of SUSY with extra singlets (NMSSM)**

*jeudi 7 mars 2013 17:00 (20 minutes)*

We show that, in supersymmetry with extra singlets, it is easy and natural to obtain a mass of the BEH scalar of  $\sim 125$  GeV, well above  $M_Z$ . Moreover the signal rate in the  $\gamma\gamma$  channel can be enhanced w.r.t. the Standard Model for several reasons. These properties persist in various singlet extensions of the MSSM, which are briefly sketched. Correlations among signal rates in different channels are discussed and, finally, the impact of an extra singlet (singlino) on searches for supersymmetry.

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**Classification de Session:** Beyond the SM

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