



ID de Contribution: 57

Type: **Ordinary**

## Searches for the SM Scalar Boson at CMS

*mercredi 7 mars 2012 11:00 (25 minutes)*

The methods and results of the searches for the Standard Model scalar boson predicted by the BEH mechanism will be described.

The analysis is based on 5 fb<sup>-1</sup> of proton-proton collision data collected with the CMS detector at LHC at 7 TeV centre-of-mass energy in 2011.

The results of these searches exclude at 95% CL a large mass range.

At low mass, between approximately 115 and 130 GeV, we observe some excess in the data that will be described in details.

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**Classification de Session:** EWSB in the Standard Model

**Classification de thématique:** Experiment