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News on Exclusive Production of the BSM Higgs Bosons

Tuesday, 27 March 2012 15:00 (20 minutes)

We investigate the prospects for Central Exclusive Diffractive (CED) production of BSM Higgs bosons at the LHC using forward proton detectors installed at 220-m and 420-m distance around ATLAS and / or CMS.

We update a previous analysis for the MSSM taking into account improvements in the theoretical calculations and the most recent exclusion bounds from the LHC.

We extend the MSSM analysis to new benchmark scenarios that are in agreement with the cold dark matter relic abundance and other precision measurements. Finally, we comment on the determination of Higgs spin-parity and coupling structures at the LHC and show that the forward proton mode could provide crucial information on the cp properties of the Higgs bosons.

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