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Multilepton signatures of BSM scalar bosons at the LHC

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We study the signature of beyond Standard Model (BSM) scalar bosons through multi-lepton final states. In here we consider $H \rightarrow S h$ decay modes, with mass of BSM scalars $250 \leq m_H \leq 300$ GeV and $140 \leq m_S \leq 160$ GeV and the mass of SM Higgs boson $m_h = 125$ GeV. In particular S and h allowed to decay in all possible modes, where we analyse only same/opposite - sign/flavour leptons for the study.

Apply to be considered for a student award (Yes / No)?

No

Level for award (Hons, MSc, PhD, N/A)?

N/A

Would you like to submit a short paper for the Conference Proceedings (Yes / No)?

Yes

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