

Constraining extended scalar sectors at current and future colliders

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After the discovery of the Higgs boson by the LHC experiments, particle physics has entered an exciting era. A crucial question that needs to be answered is whether the SM accurately describes the scalar sector realised in nature, or whether it is part of a more extended scalar sector. I will briefly discuss different extensions of the SM scalar sector, current constraints from theory and experimental searches, as well as discovery prospects at current and future colliders. For models containing a dark matter candidate, I will also make a connection to dark matter experiments.

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