

Doubly charged Higgs bosons at the FCC-hh

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Discovery of the Higgs particle at the LHC confirmed the mechanism of mass generation in the Standard Model. But that still does not eliminate the possibility of existence of models with extended scalar sectors. Those models can be constructed just by introduction of additional scalar multiplets, with or without extension of the gauge group.

Among the non-standard Higgs particles could appear also doubly charged scalars. This kind of particles couples to leptons and can contribute to the processes violating the lepton number. The possibility of observation of these scalars is considered in context of Left-Right Symmetric Models which contain additional scalar triplets.

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