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## Exotic Higgs Decays at the LHeC

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I will discuss the prospects of searching for exotic Higgs decays at the proposed Large Hadron Electron Collider (LHeC), which is a high luminosity electron-proton collider expected to run synchronously with the HL-LHC. Two examples will be presented, namely the invisible Higgs decay and the Higgs decaying to  $4b$  via intermediate scalars. Compared to the HL-LHC, the LHeC is demonstrated to yield at least comparable sensitivity in the invisible Higgs channel and much better sensitivity in the Higgs to  $4b$  channel. These results are very attractive if there is no available lepton collider which can copiously produce the Higgs boson before the end of the HL-LHC.

### Summary

**Primary author:** Mr ZHANG, Chen (Peking University)

**Presenter:** Mr ZHANG, Chen (Peking University)

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