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Search for a heavy Higgs and probing the CP for the light Higgs at the LHC and future e⁺e⁻ colliders

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Searching for new physics signatures in the Higgs sector is an important goal at current and future colliders. It is found that in an effective field theory, the process of $pp \rightarrow VH^* \rightarrow VVV$ is very sensitive to the anomalous dim-6 couplings of a heavy Higgs, for which the LHC can potentially give some hints. With the high luminosity data from LHC, the CP property of the light Higgs at 125 GeV can be studied in its ditau decay channel. The CP mixing angle measurement can be further refined at future e⁺e⁻ colliders, which may open the door to new physics.

Biography

Xin Chen has obtained his PhD from University of Wisconsin-Madison. He is currently working as an Assistant Professor at Tsinghua University, China.

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