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Probing the new physics through the exclusive decay of Higgs and Z boson

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The rare decays of the Higgs and Z bosons to a vector quarkonium and a photon have been widely studied, especially for the exclusive decay from the Higgs boson since it could be used to constrain the light quark Yukawa coupling and its CP violation. In this talk, I will discuss the possibility to probe the other new physics effects through these rare decay. We demonstrate that the rare decays from Z boson can be used to probe the Zbb coupling, while the decays from Higgs boson can be used to exclude the degeneracy of the Higgs photon coupling from the global analysis of the Higgs data at the LHC.

Category

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