

Scalars 2017



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Correlation between the decays of h^0 to photon and gluon pairs in the MSSM with quark flavour violation

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Content :

We study the correlation between the loop-induced decays h^0 to photon photon and h^0 to gluon gluon in the Minimal Supersymmetric Standard Model (MSSM) with non-minimal quark flavour violation assuming that h^0 has a mass of the Higgs boson measured at LHC.

We perform a MSSM parameter scan respecting theoretical and experimental constraints. The deviations of these two decay widths from the Standard Model values can be large, in the order of $\pm 10\%$, simultaneously and they are correlated. Such large deviations can be observed at a future $e^+ e^-$ collider.

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