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Search for Fermiophobic Higgs Boson in the $3\gamma + X$ Final States

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A search for the fermiophobic Higgs boson in the two Higgs doublet and the triplet Higgs models is performed using 0.8 fb^{-1} of data collected by the D0 detector at the Fermilab Tevatron accelerator. The signal would manifest itself as an excess of $3\gamma + X$ events over the Standard Model background. As no such excess is observed, the limits on the fermiophobic Higgs boson production are set.

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