

The top threshold effect in the $\gamma\gamma$ production at the LHC

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We compute the top quark threshold contributions to the $\gamma\gamma$ production at the LHC. These contributions become significant when the invariant mass of the photon pair, $M_{\gamma\gamma}$ just exceeds two times the mass of the top quark and induce some features in the $M_{\gamma\gamma}$ distribution. We determine the magnitude of this threshold effect and investigate other kinematic cuts which may enhance its significance.

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