

# 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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