

$h(125) \rightarrow aa \rightarrow \gamma\gamma\gamma\gamma$

Higgs to 4 Gamma Update

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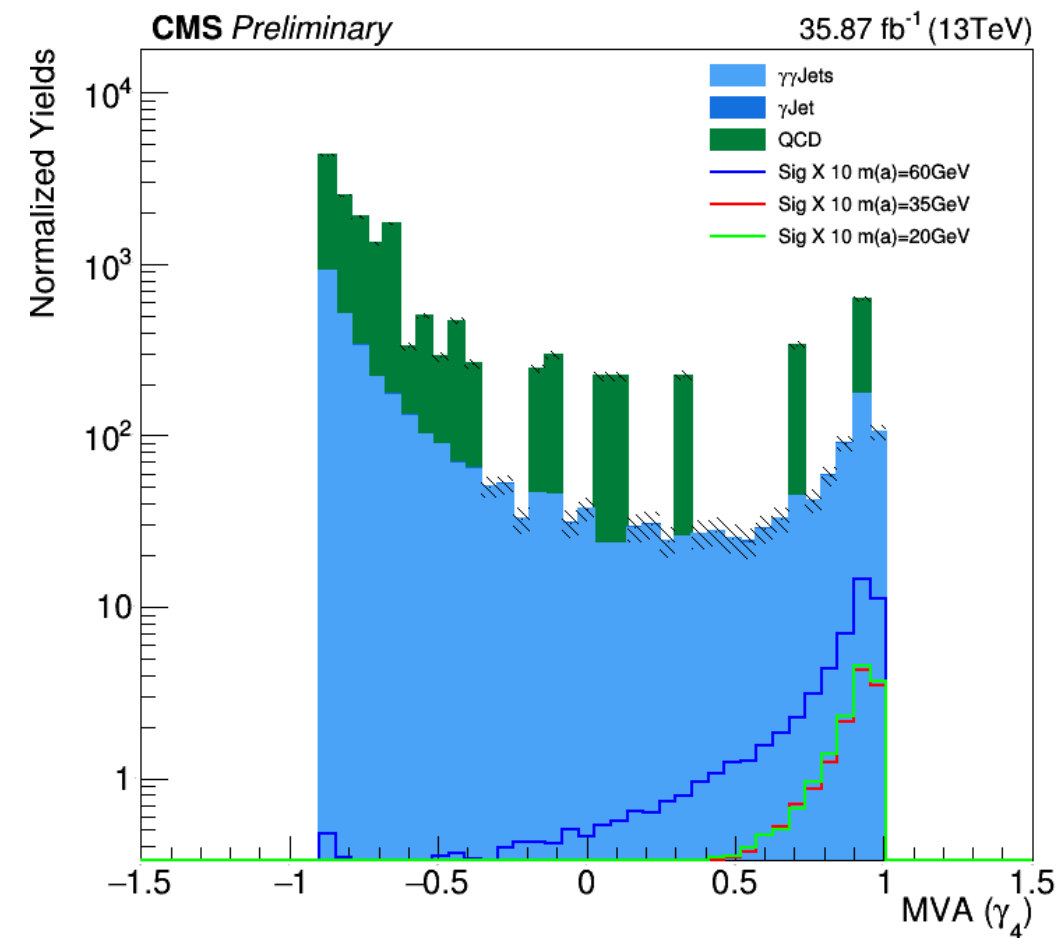
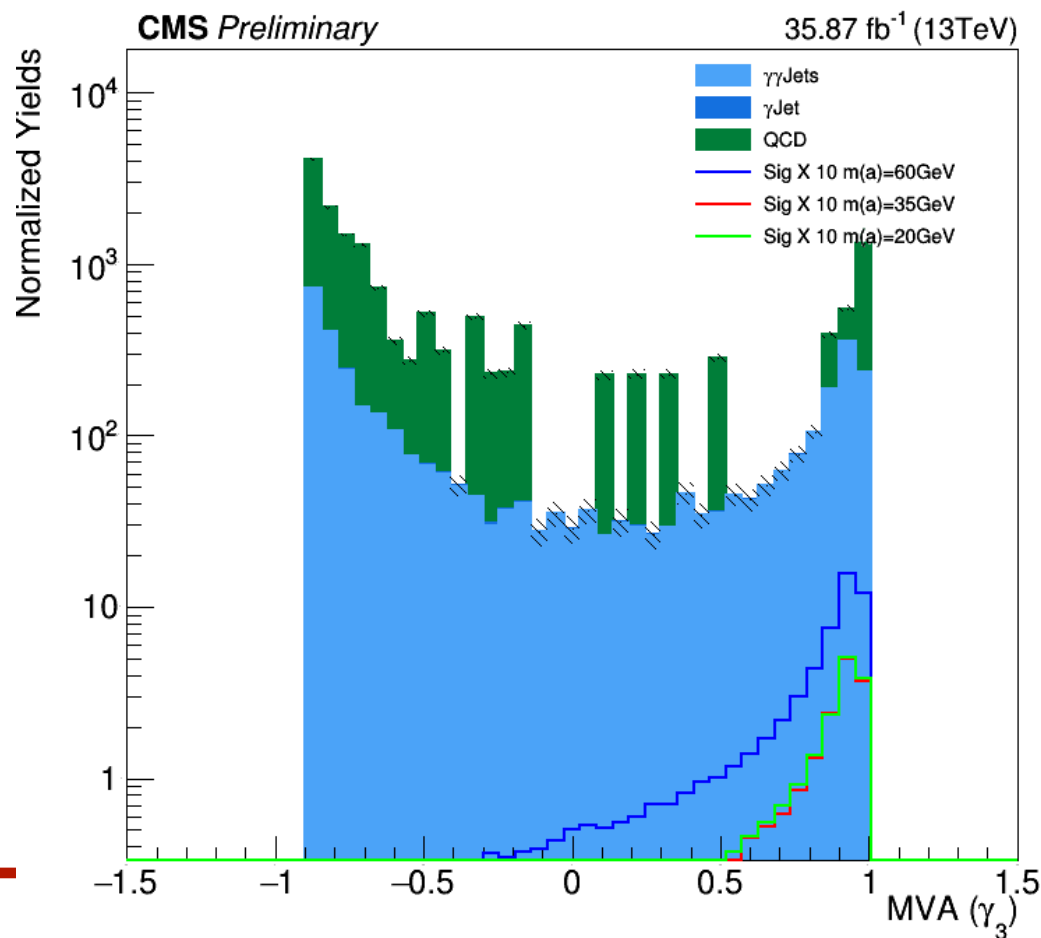
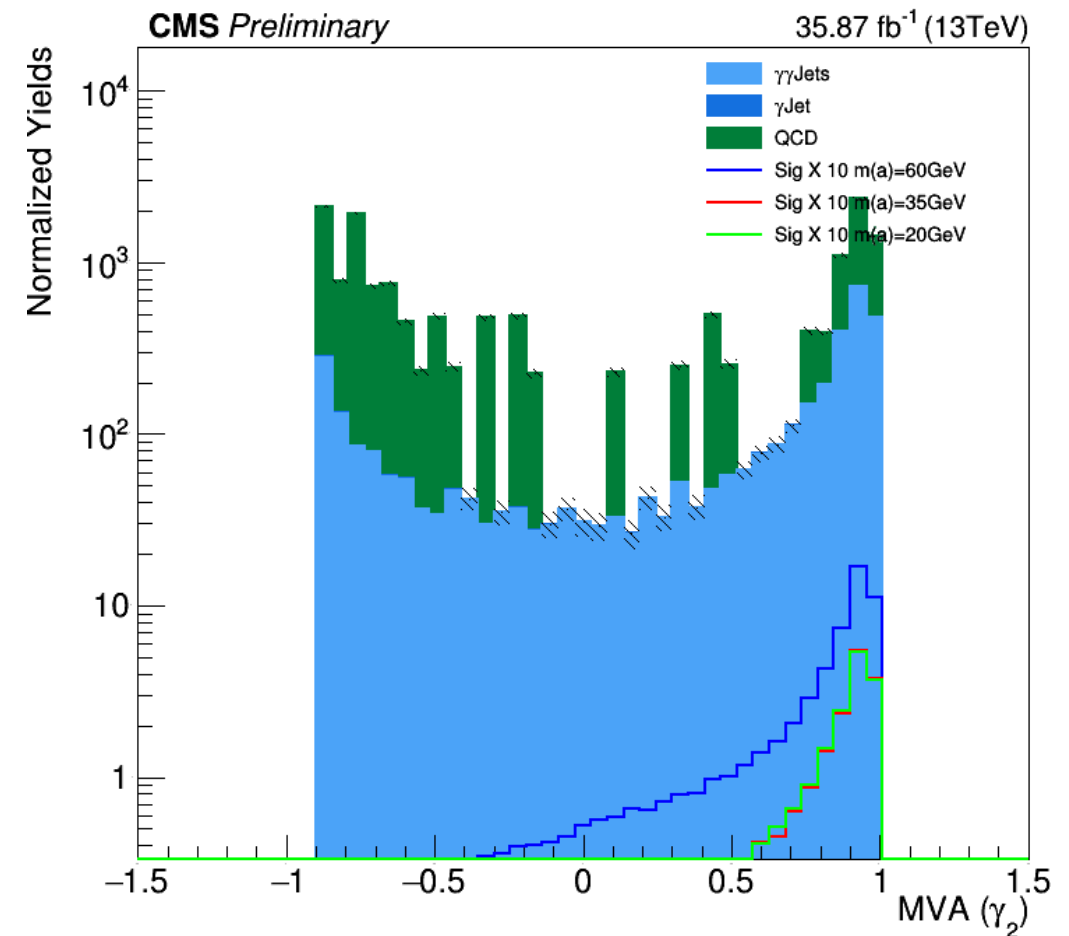
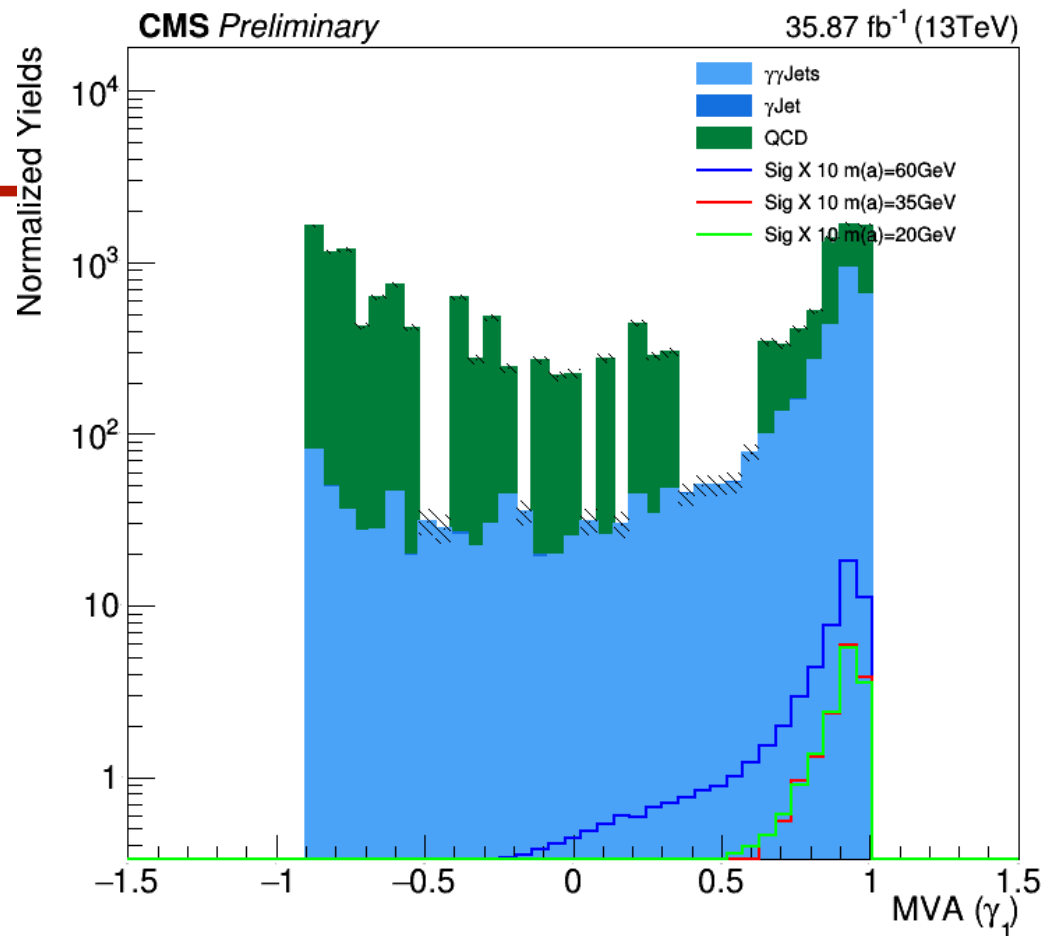
¹Northeastern University

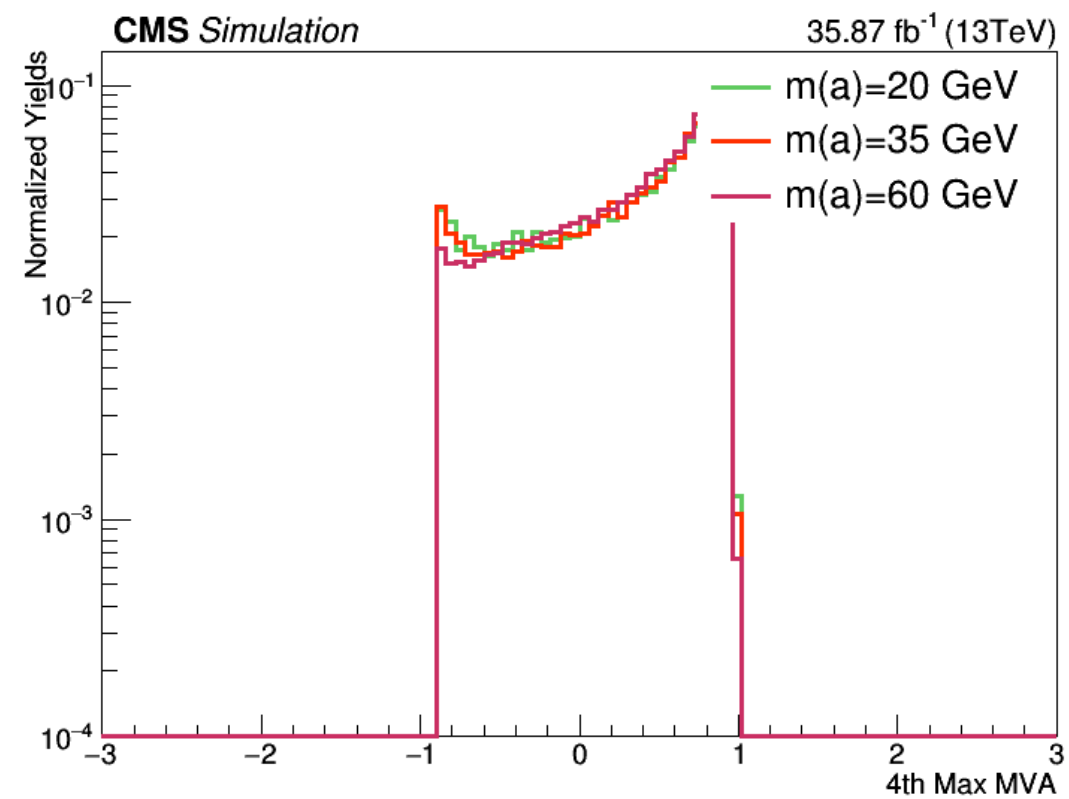
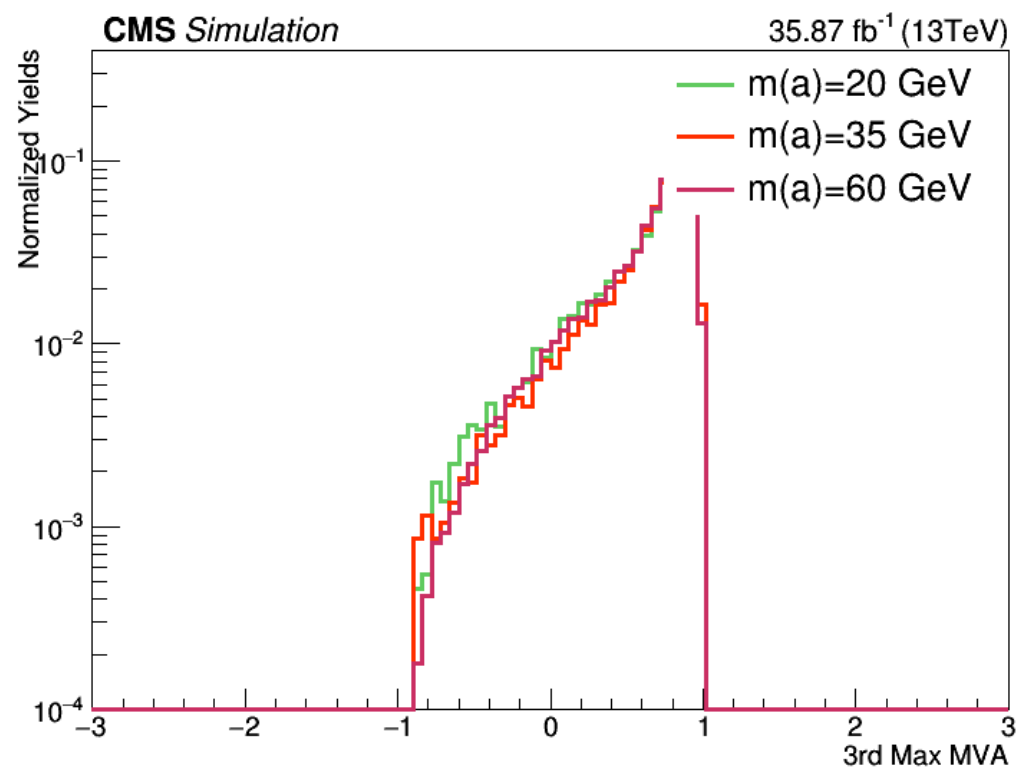
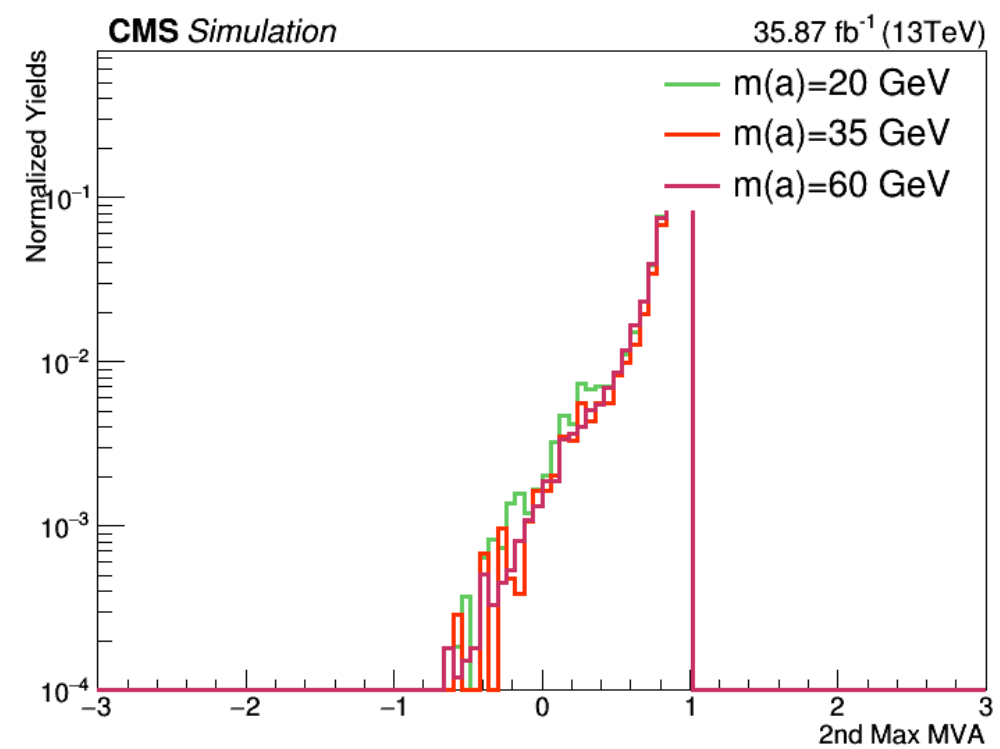
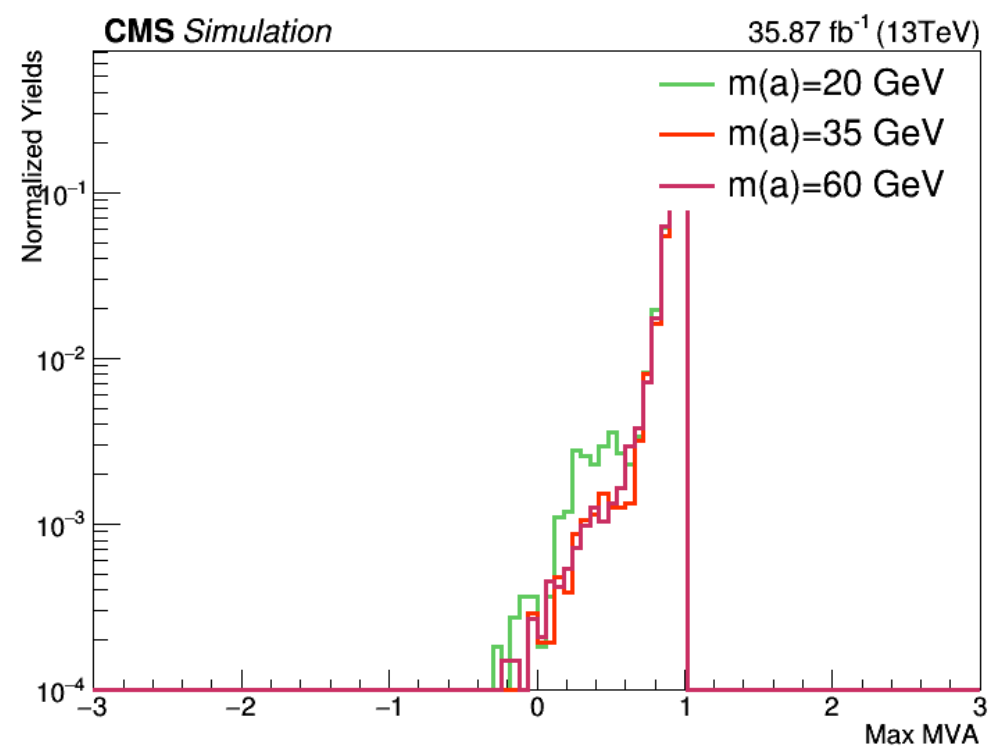
²INFN Milano-Bicocca

H4G chat
06 March 2018

γ Jets20toInf and γ Jets40toInf samples are missing here

(Problem with running the skimmer code — memory issue)





- Inputs to the photon MVA (from Hgg AN) :

8.0.6 Photon Id MVA input variables

The following variables are used as input to the BDT and described in detail in Section 4:

$\sigma_{i\eta i\eta}$, $COV_{i\eta i\Phi}$, E_{2x2}/E_{5x5} , R_9 , σ_η , σ_ϕ , Preshower σ_{RR} , PF Photon ISO, PF Charged ISO (worst vertex), PF Charged ISO (selected vertex), ρ , supercluster η , and supercluster E_{RAW} .