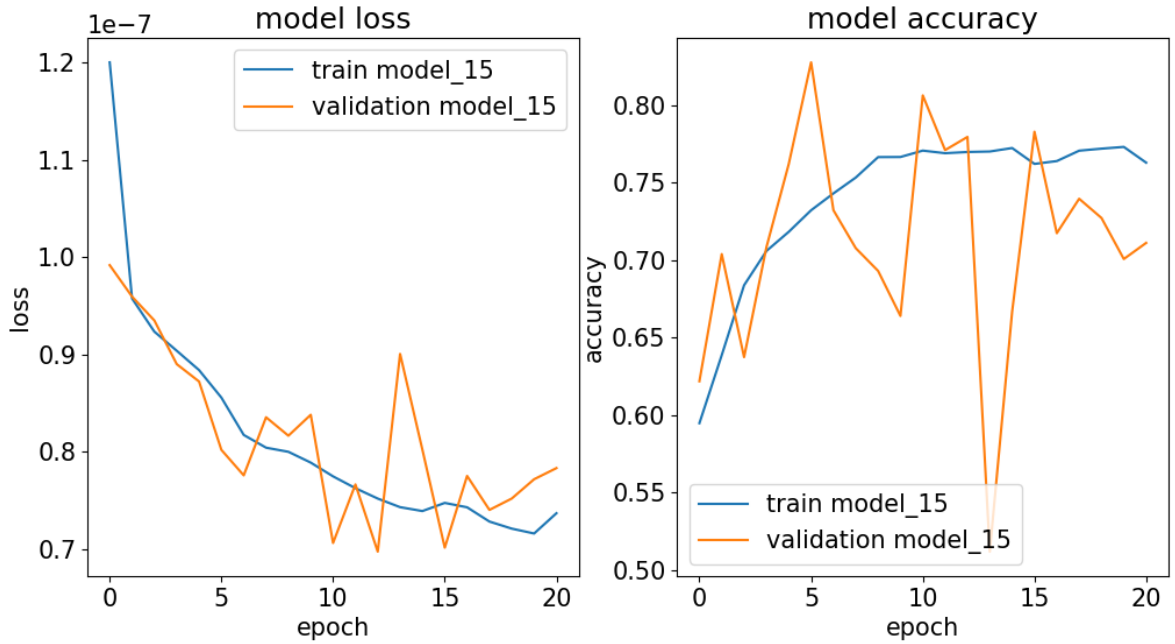
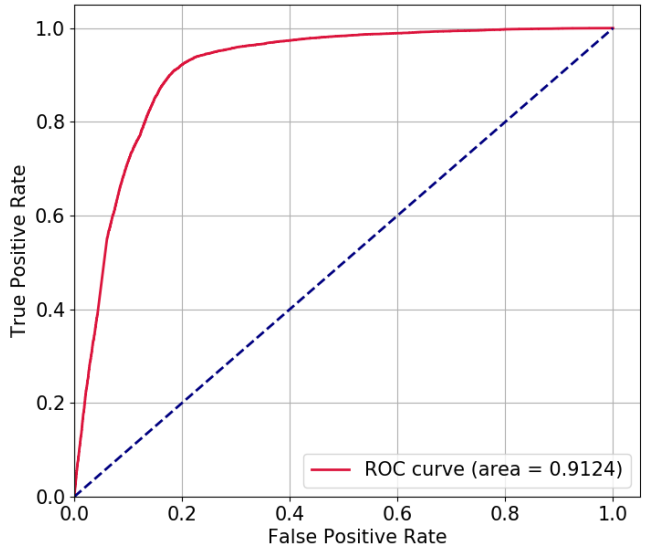
LLP short

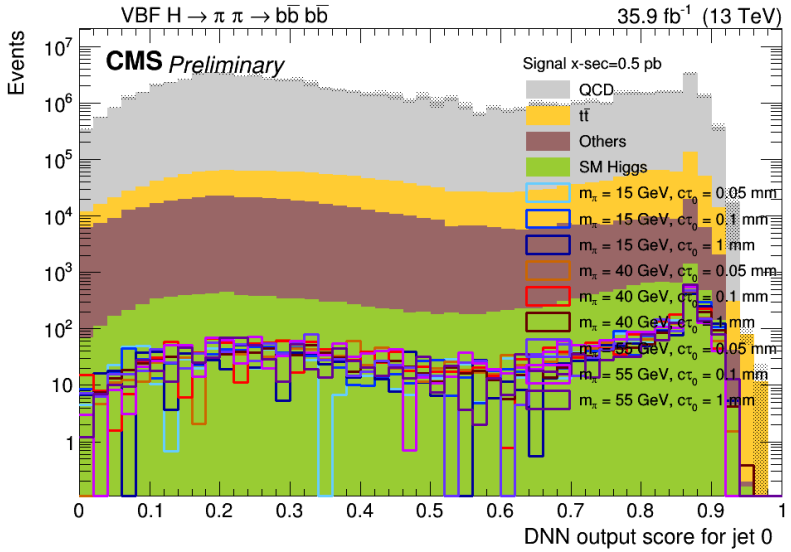
Meeting 06.08.2020

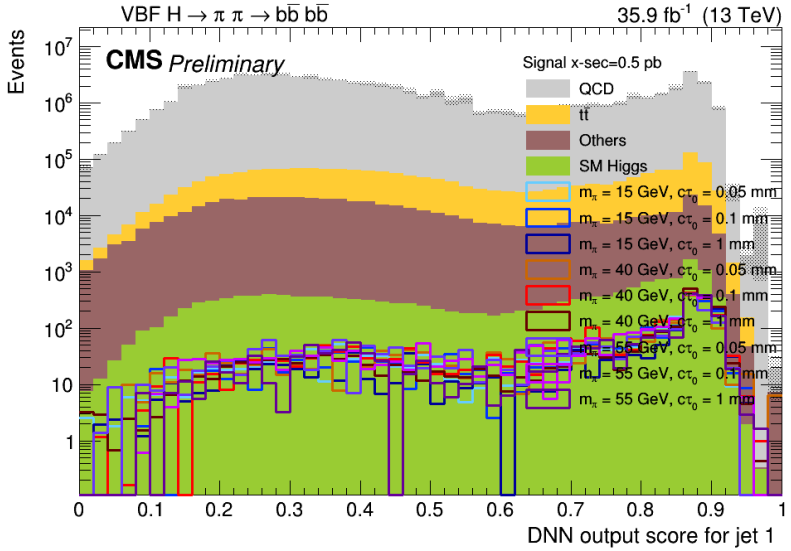
New trained FCN for all masses – parametrized





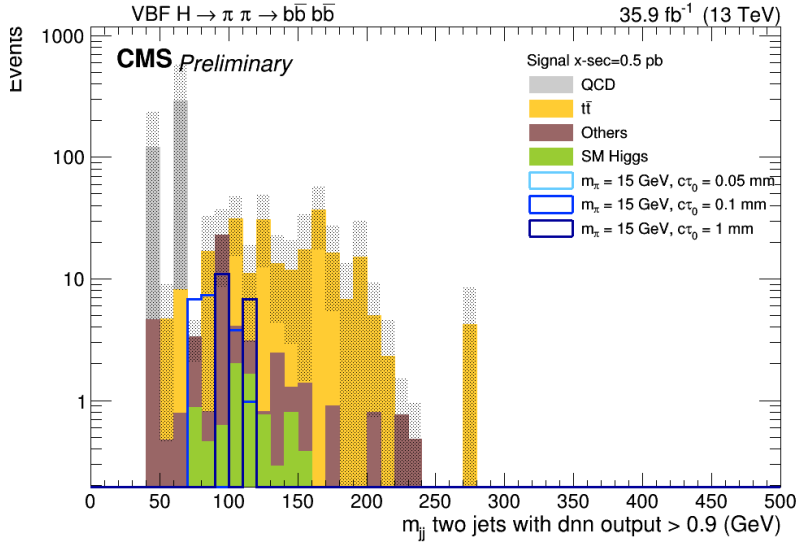
Added in addition as input parameters mass and ctau of pion. For background took zero for both.
Peak at around 0.9 in signal and background.

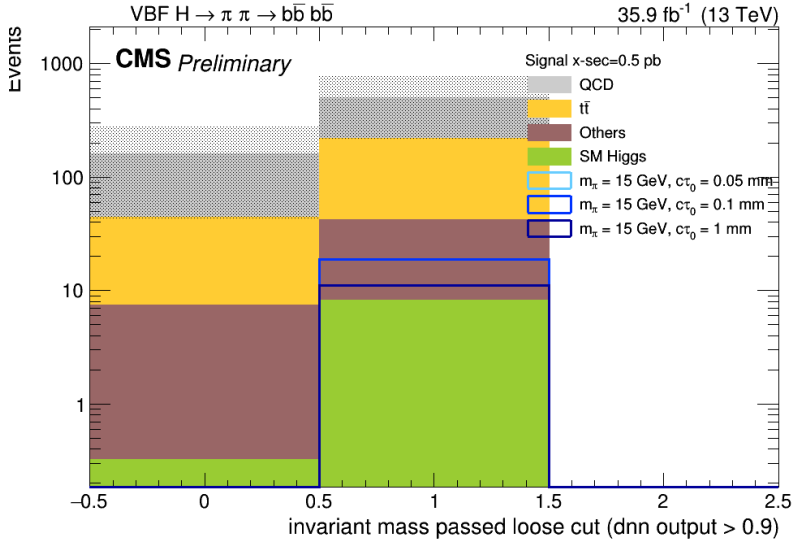


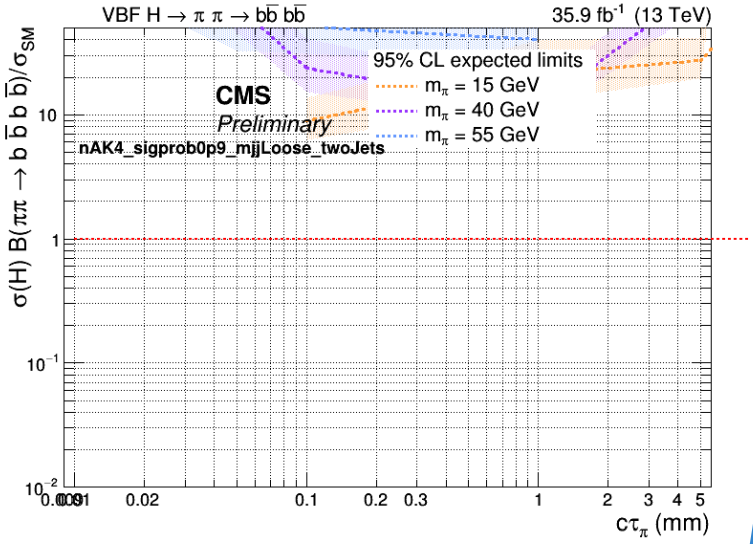


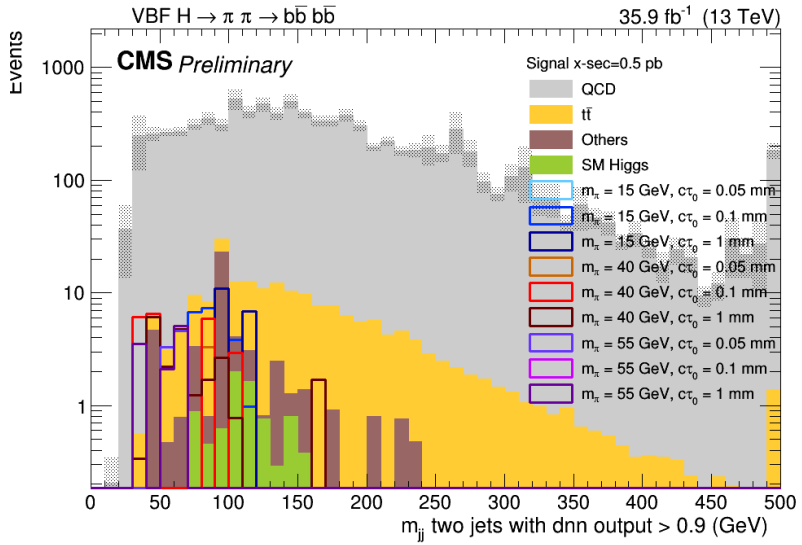
FCN for all masses parametrized – Limits

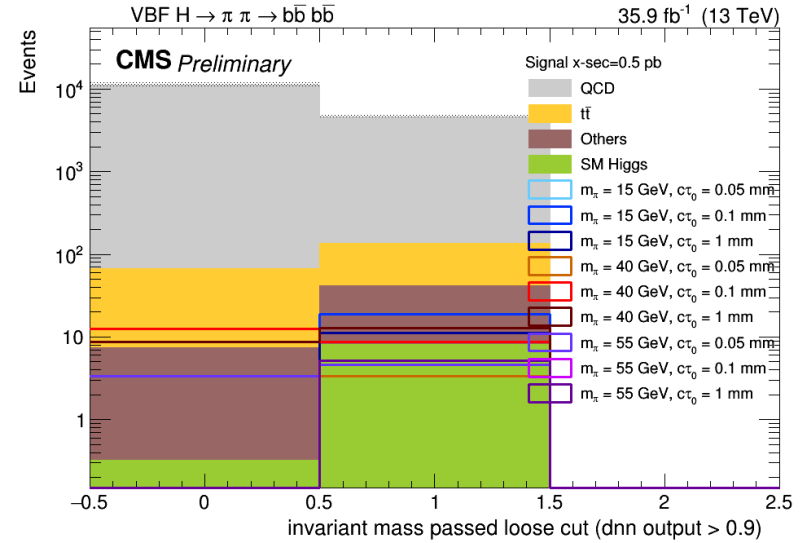
TWO leading jets. Upper no efficiency applied, lower new calculated efficiency.

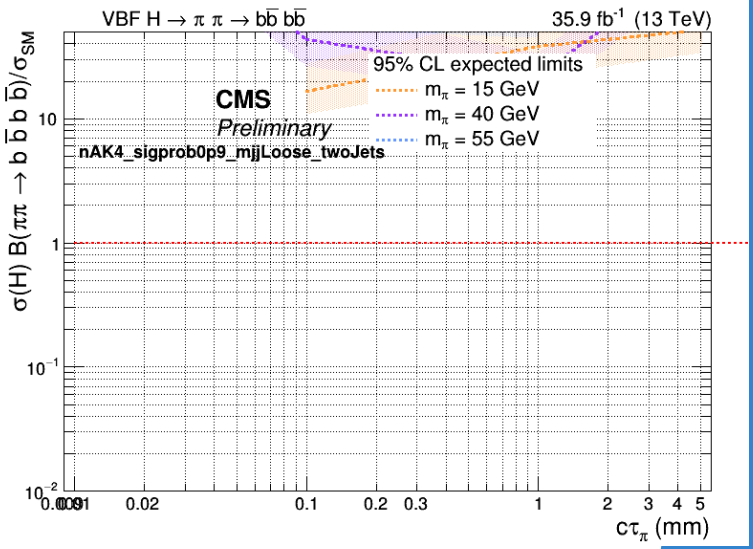






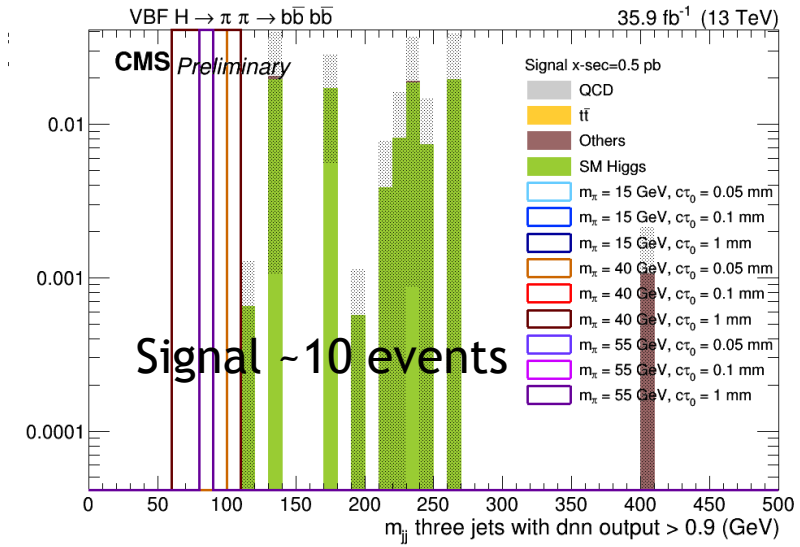


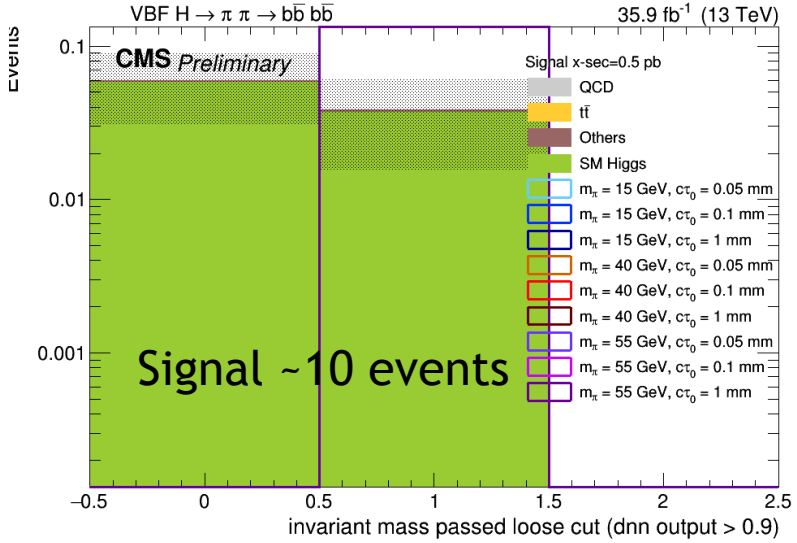


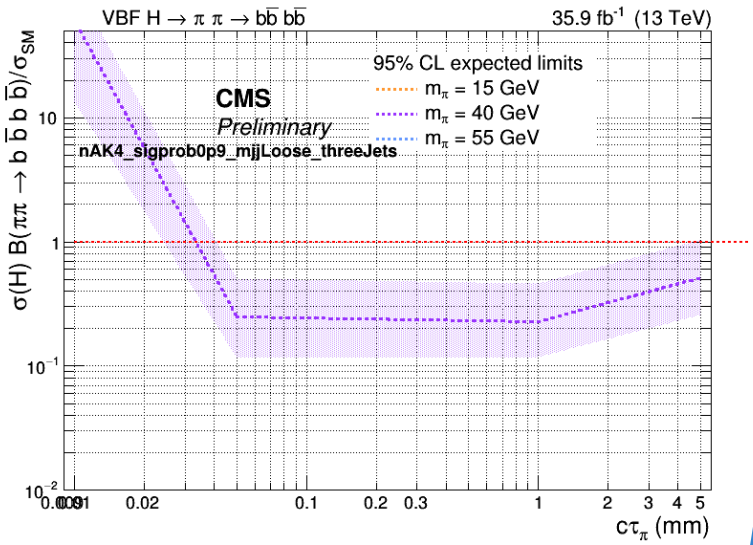


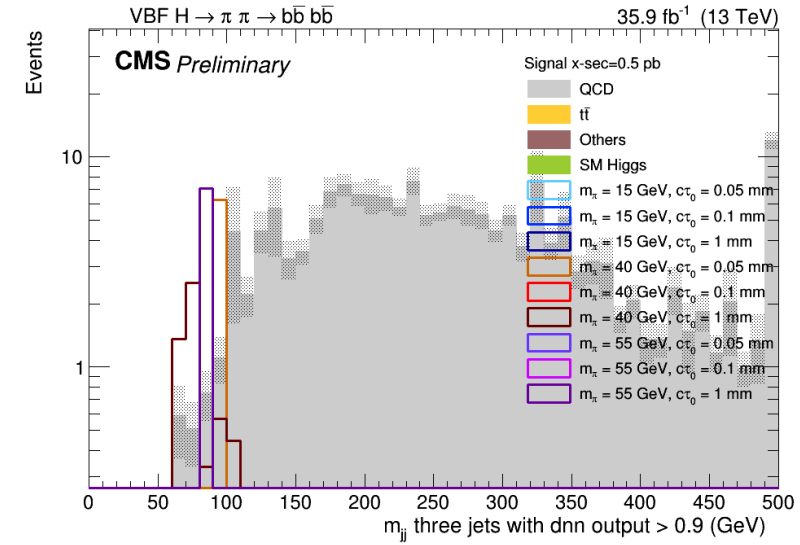
FCN for all masses parametrized – Limits

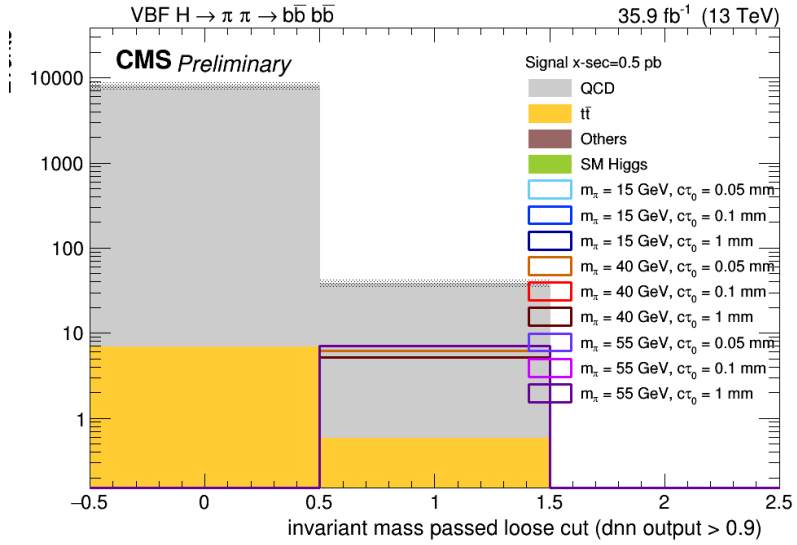
THREE leading jets. Upper no efficiency applied, lower new calculated efficiency.

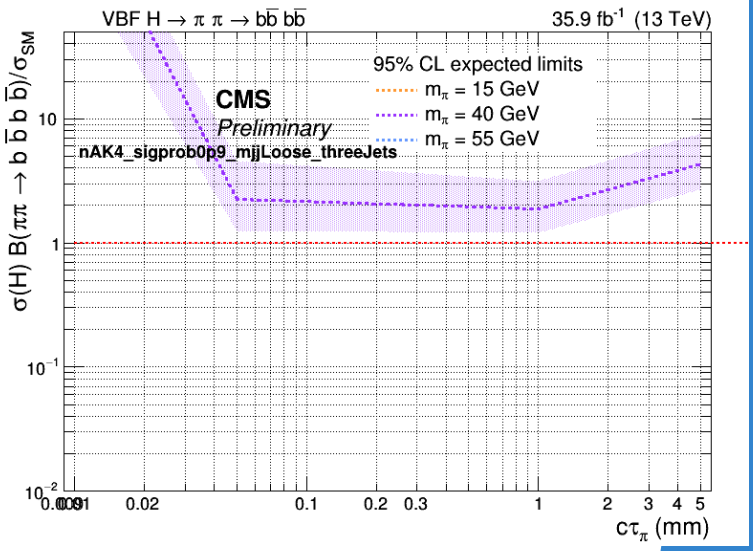








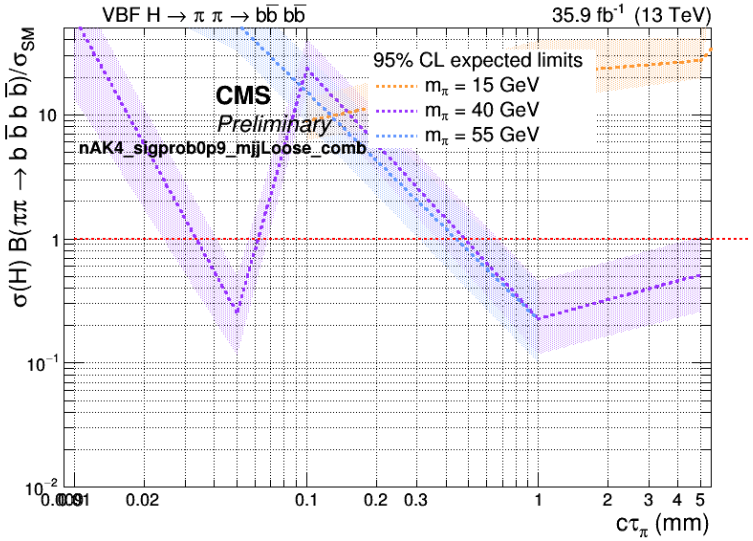


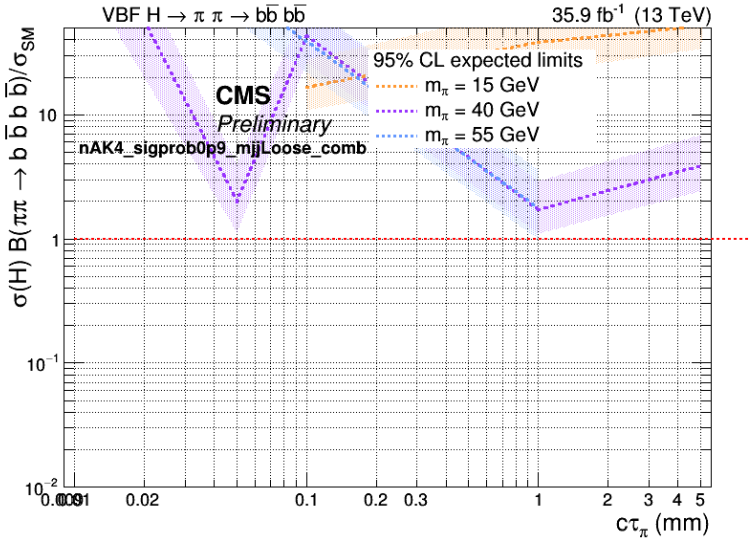


FCN for all masses parametrized – Limits

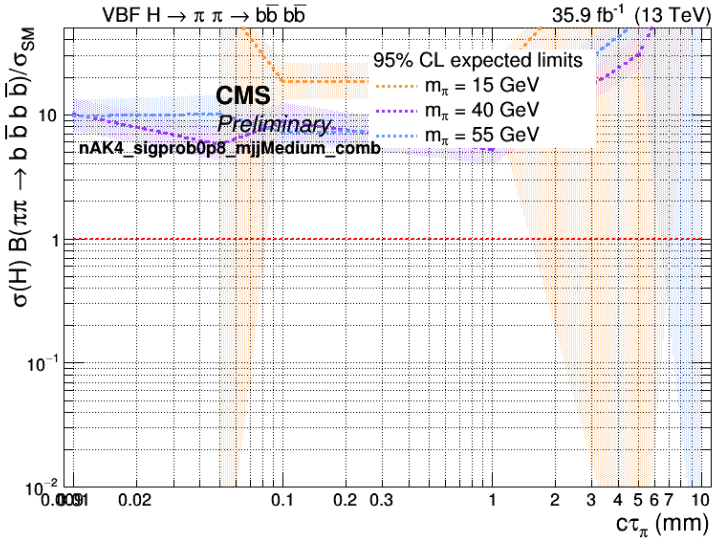
COMBINATION of two and three leading jets. Upper no efficiency applied, lower new calculated efficiency.

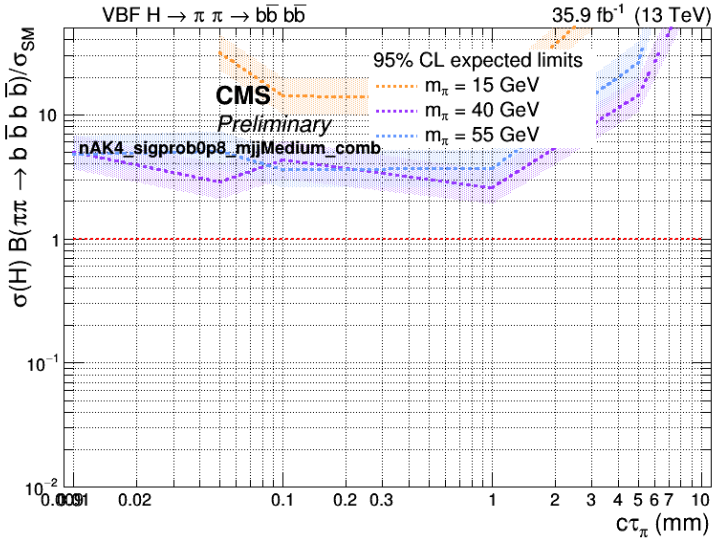
FCN discriminator > 0.9, loose mass window





FCN discriminator > 0.8, medium mass window

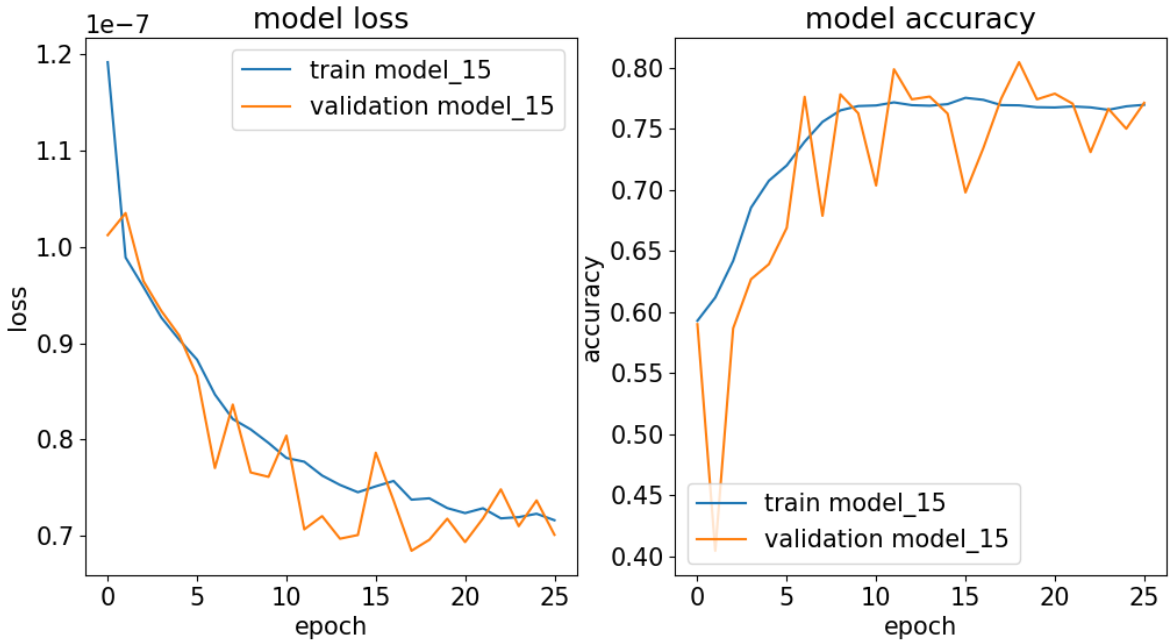


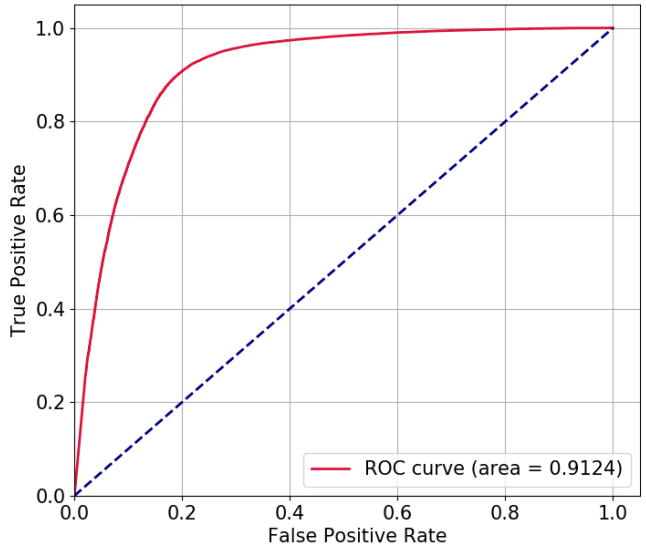


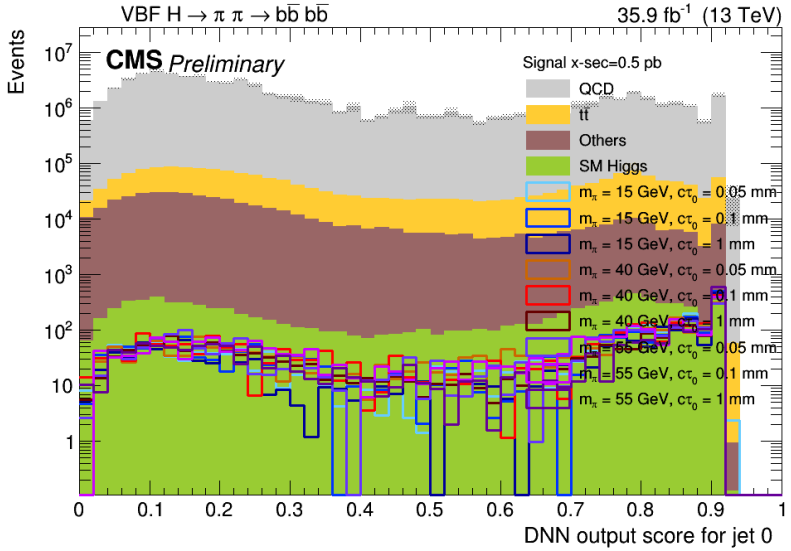
FCN without parametrization

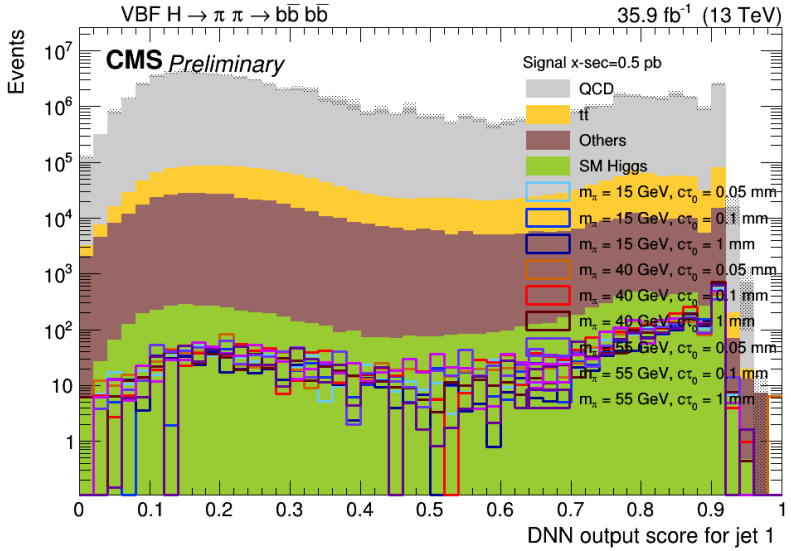
Results from last week

New trained FCN for all masses



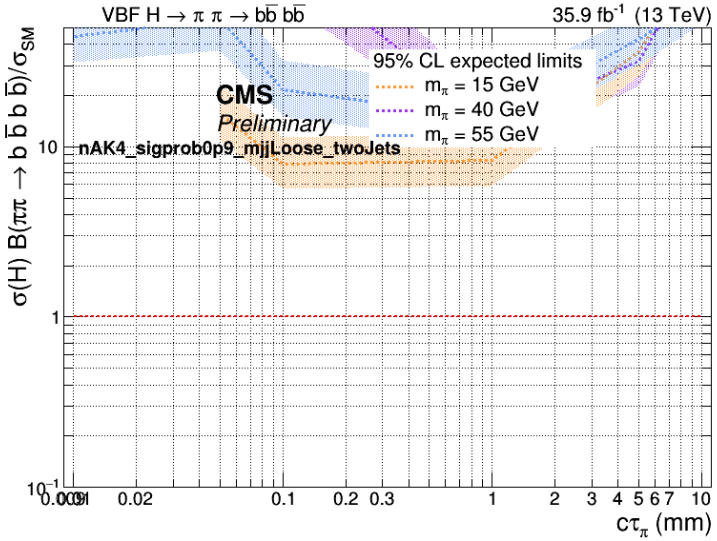


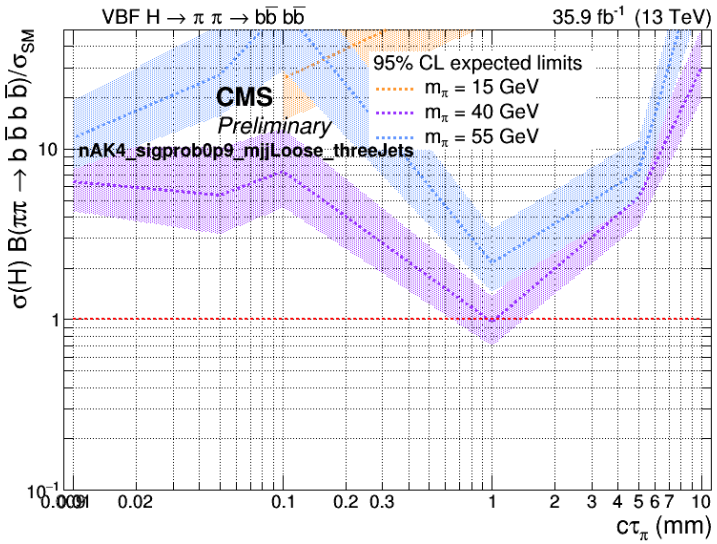


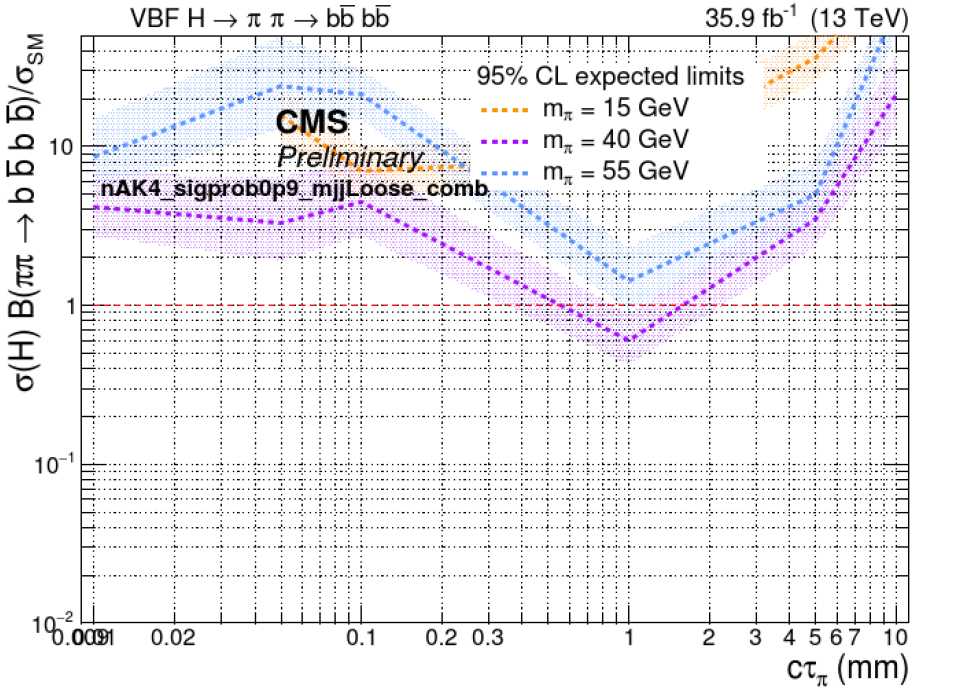


FCN for all masses parametrized – Limits

COMBINATION of two and three leading jets.

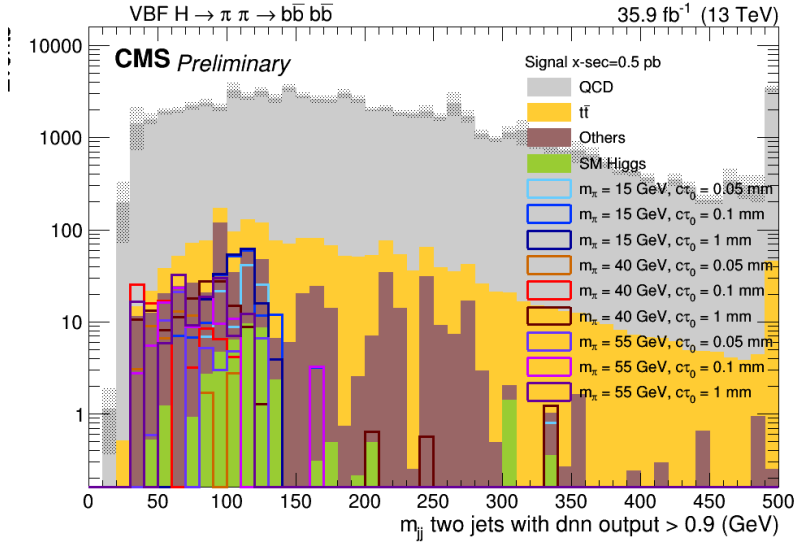


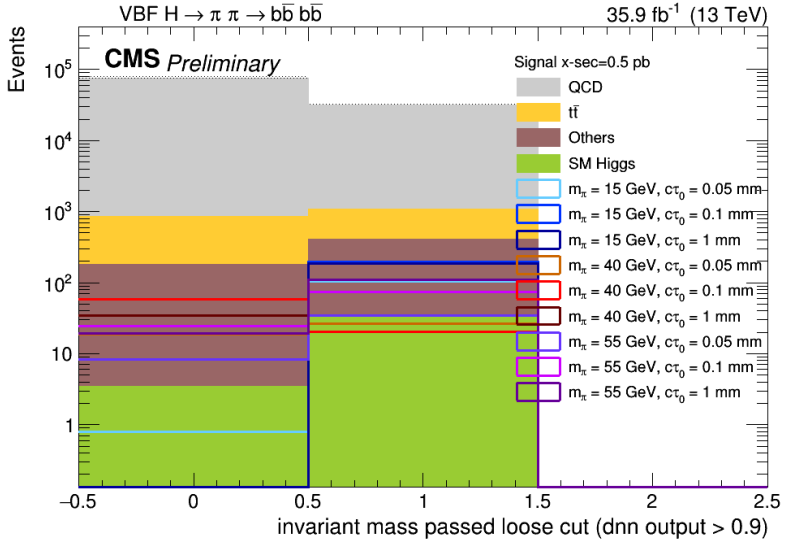


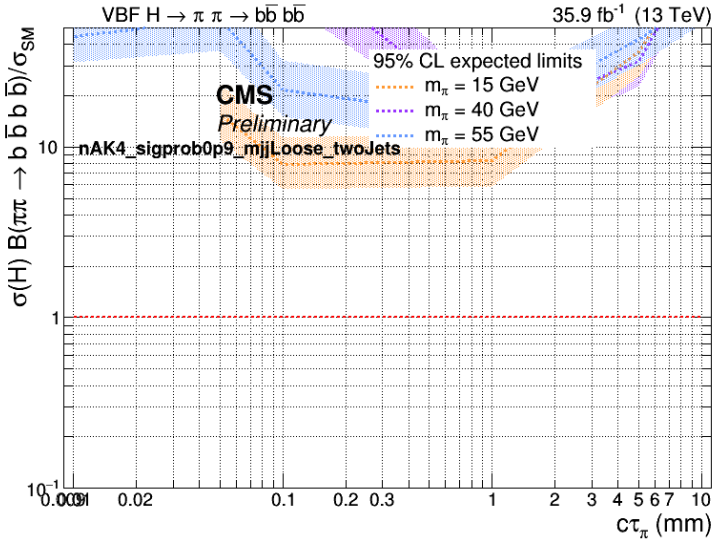


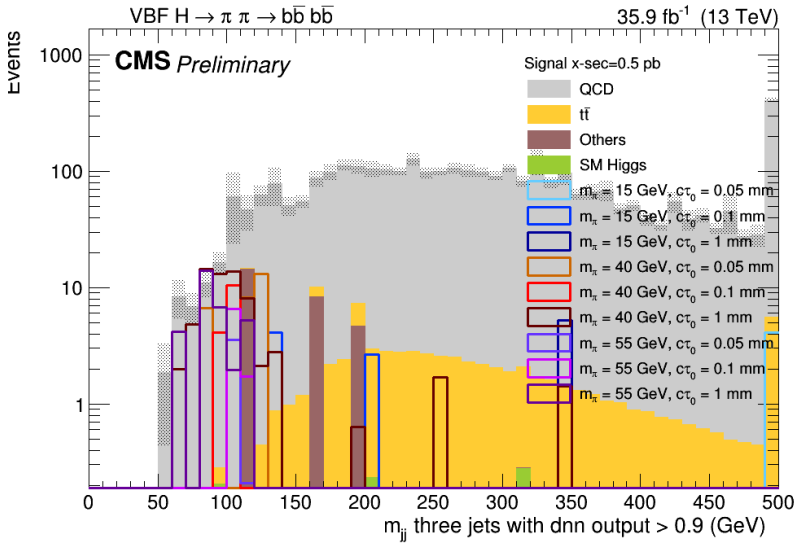
New trained FCN for all masses - Limits

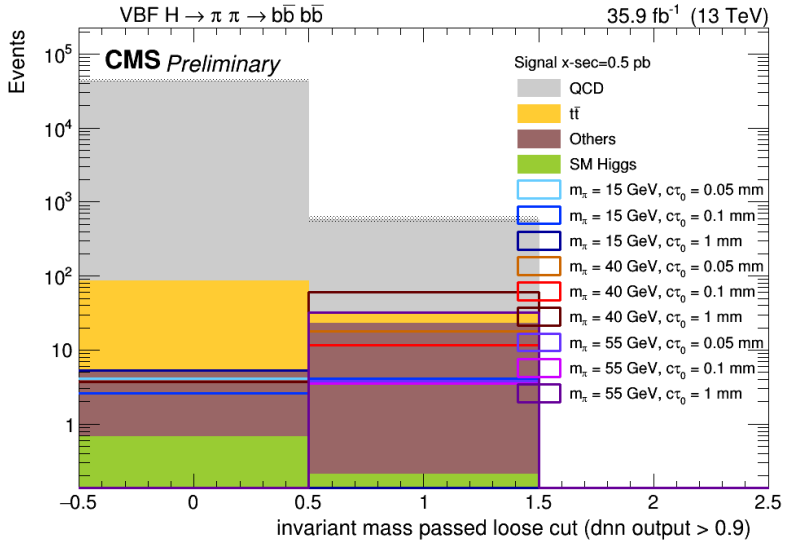
Efficiency factors are new calculated and applied to $t\bar{t}$ and QCD events.
So far only leading jets used to calculate invariant mass, no permutation (due to complication for combined efficiency definition).

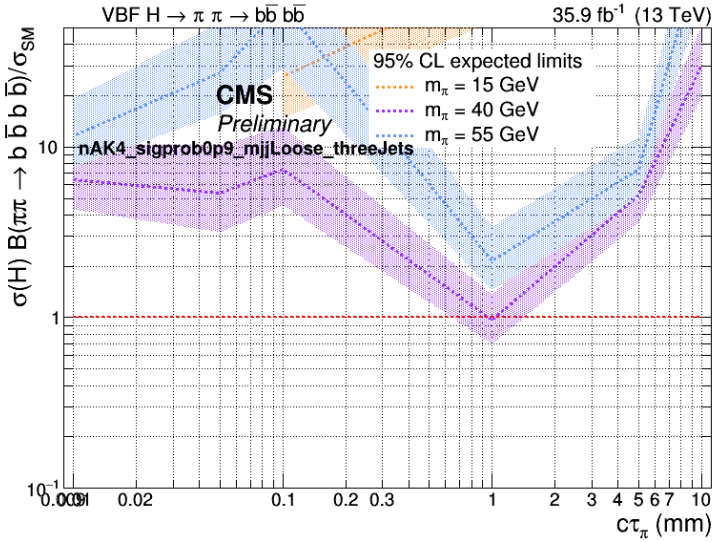












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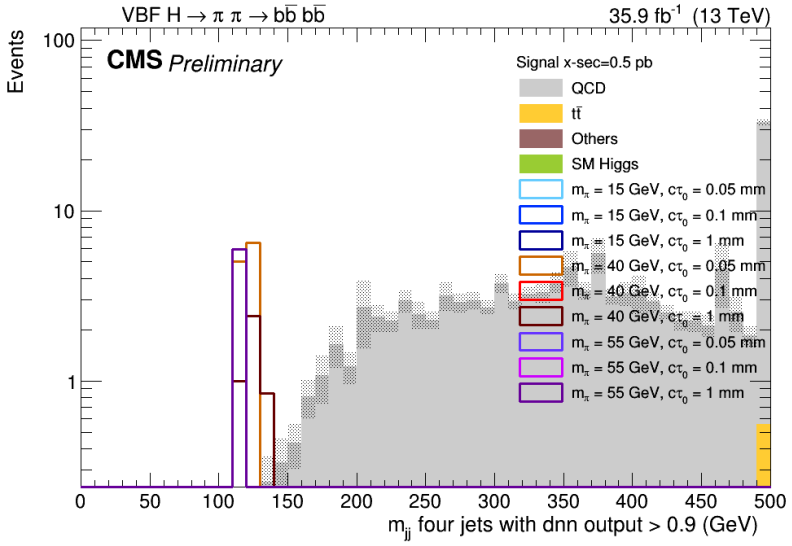
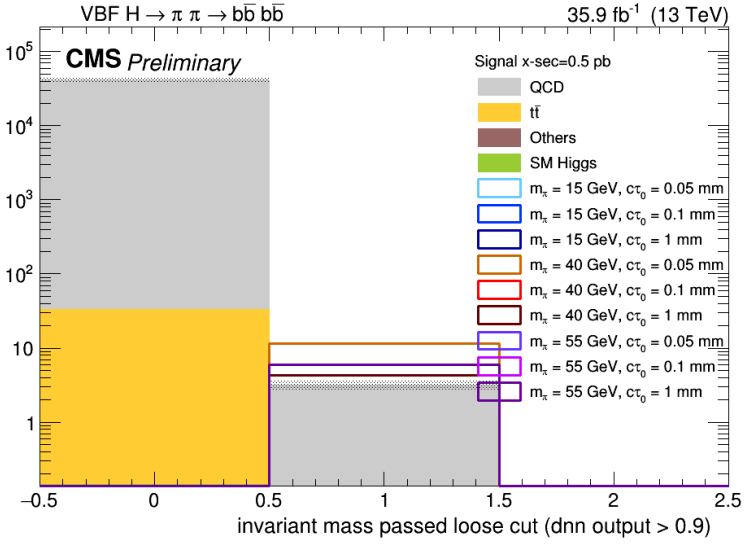
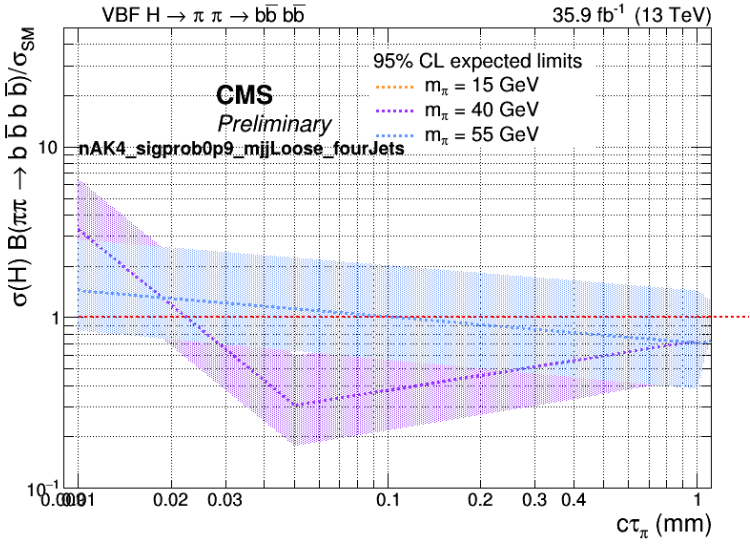
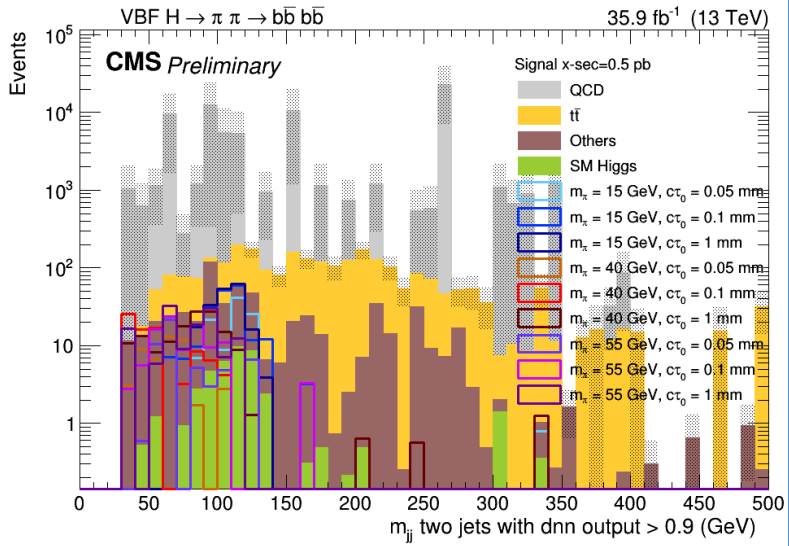


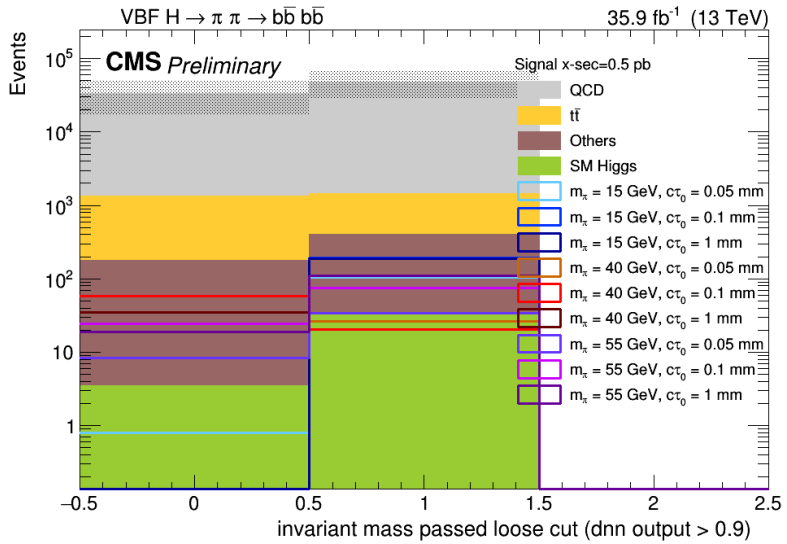




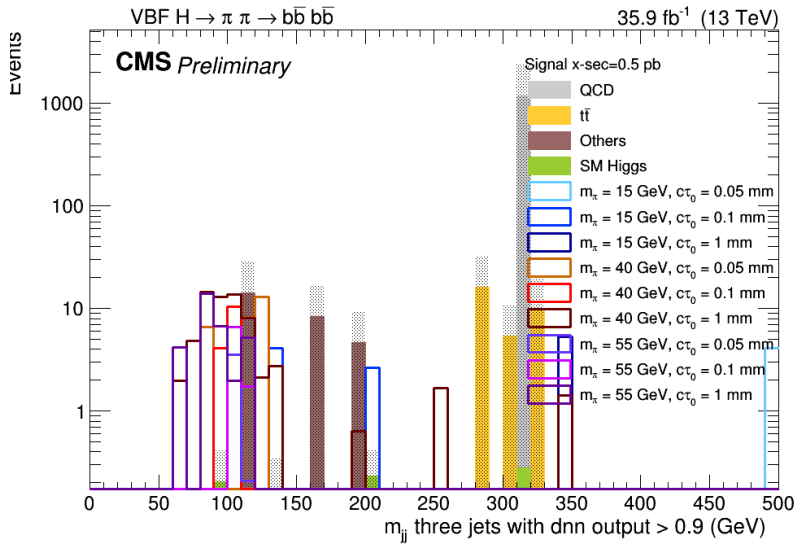
Plots without Efficiency Factors Applied

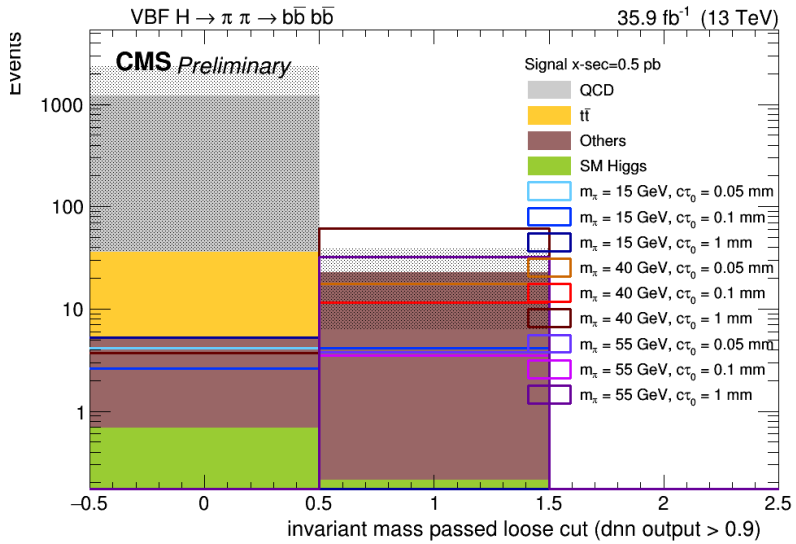
Two jets





Three jets





Four jets