

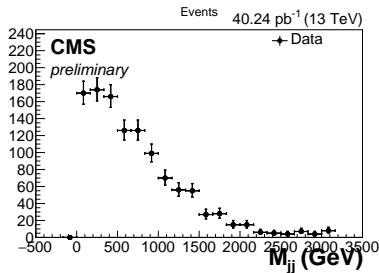
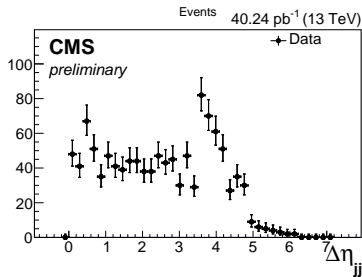
40 pb^{-1} Data

Reminder

- ▶ We now have the full 40 pb^{-1} of MET and SingleMuon PDs processed
- ▶ Two datasets for each due to first part of PromptReco missing Met Filters
- ▶ Will show plots of variables used in trigger

Trigger variables: pass trigger

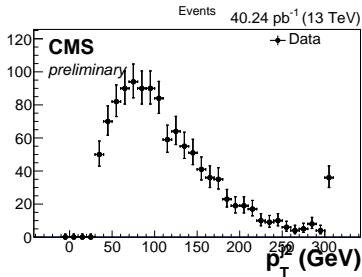
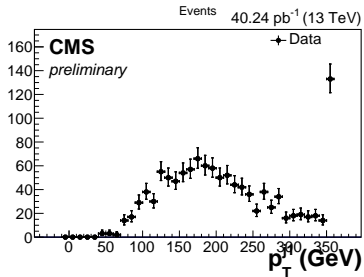
- Start by requiring only
HLT_DiPFJet40_DEta3p5_MJJ600_PFMETNoMu140_v



- Clearly different jet pair offline

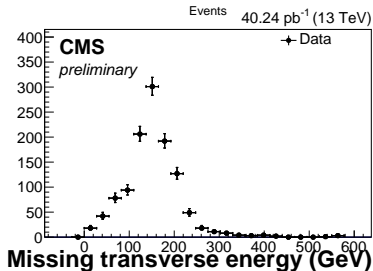
Trigger variables: pass trigger

- Start by requiring only
HLT_DiPFJet40_DEta3p5_MJJ600_PFMETNoMu140_v



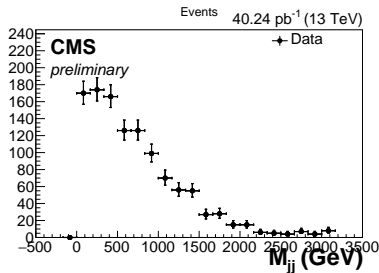
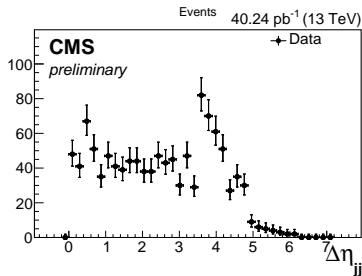
Trigger variables: pass trigger

- Start by requiring only
HLT_DiPFJet40_DEta3p5_MJJ600_PFMETNoMu140_v



Trigger variables: tighten cuts

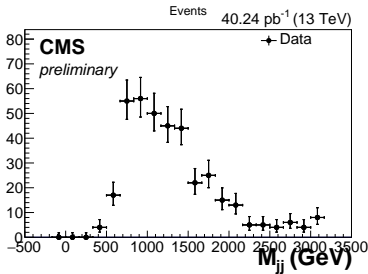
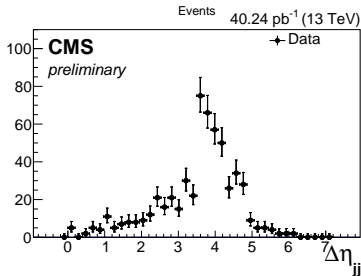
- Check $\Delta\eta_{jj}$ and M_{jj} for events with:
 - 2 jets $p_T > 40$ GeV



- No difference

Trigger variables: tighten cuts

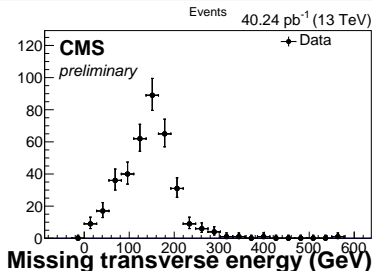
- For $\Delta\eta_{jj}$ also require $M_{jj} > 600$ GeV
- For M_{jj} also require $\Delta\eta_{jj} > 3.5$



- Much better

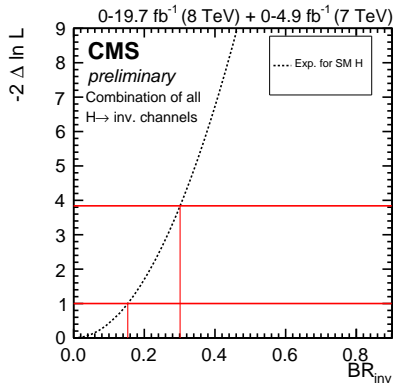
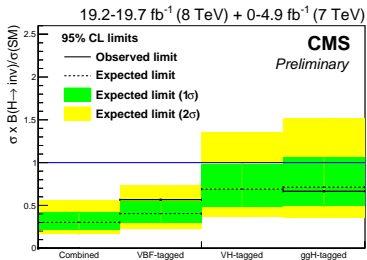
Trigger variables: MET with tighter cuts

- Require 2 jets $p_T > 40$ GeV, $M_{jj} > 600$ GeV, $\Delta\eta_{jj} > 3.5$



Combination

- ▶ Expected limit 30%
- ▶ Preapproval in Higgs meeting next Tuesday



Summary

- ▶ Trigger variables look roughly as expected
- ▶ Next steps:
 - Turn on curves from single mu
 - Get MC expectations for comparison
- ▶ Combination progress:
 - First draft of PAS and updated Exo AN are in CADI
 - Preapproval next Tuesday

Backup