

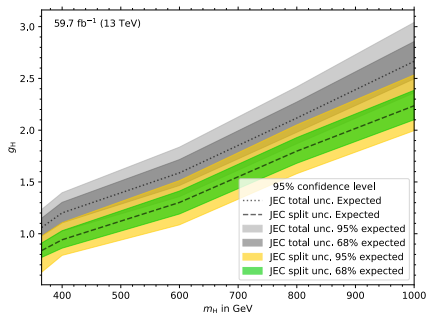
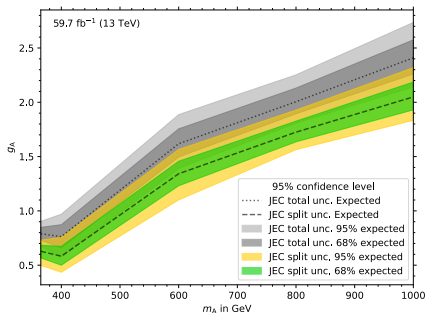
# Heavy Higgs things

Jonas Rübenach  
EXO Meeting  
October 16, 2020



# Limits from different JEC splittings

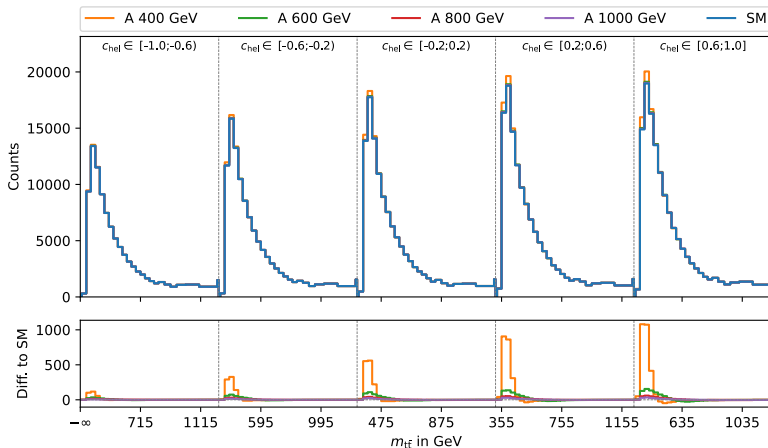
- Uncertainty from JEC either in one as total or in subsources



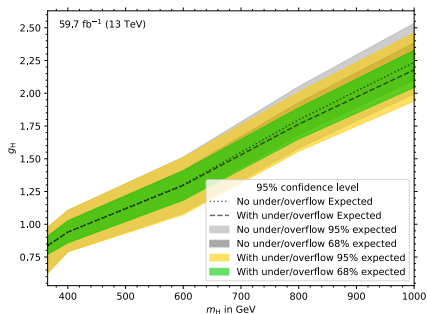
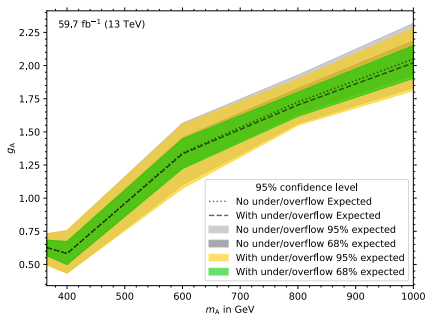
- Somehow large improvements due to JEC splitting?

# Overflow bins

- Ignored overflow bins so far
- Now produced templates with overflow bins

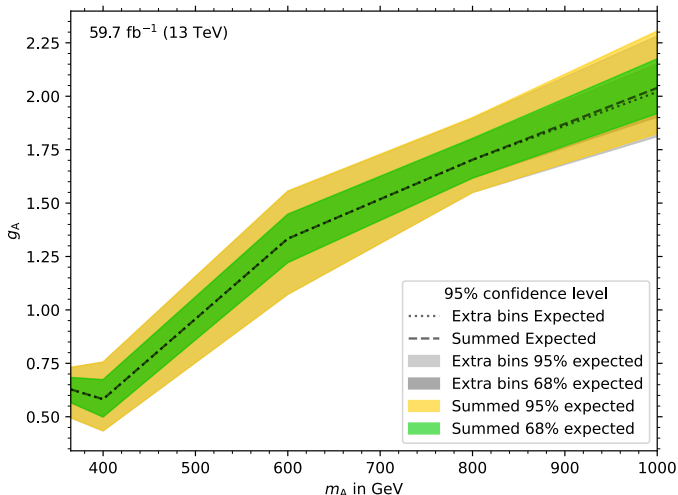


# Limits with overflow bins



- Small but visible improvement from including overflow bins

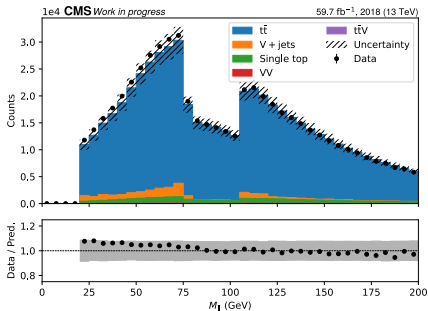
# Limits with overflow bins summed to outer bins



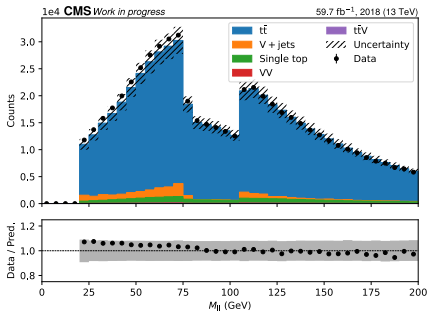
# Using (N)NLO cross sections

- Already using (N)NLO cross section for most processes
- Updated from LO: WW, ZZ, WZ, TTZ

Before

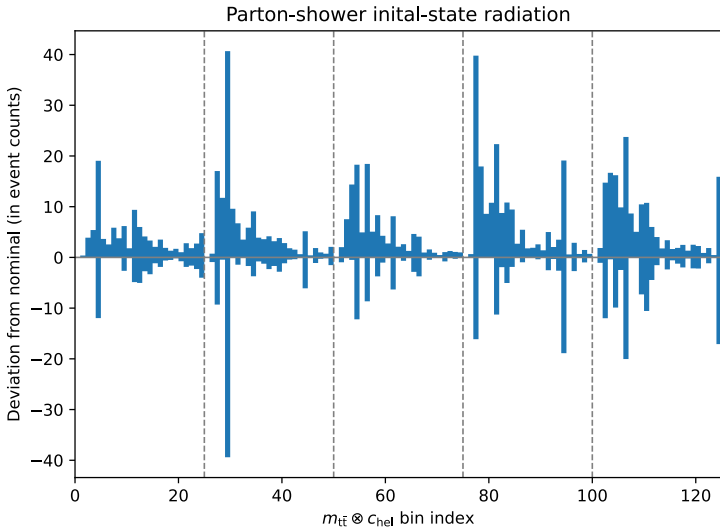


New cross section values



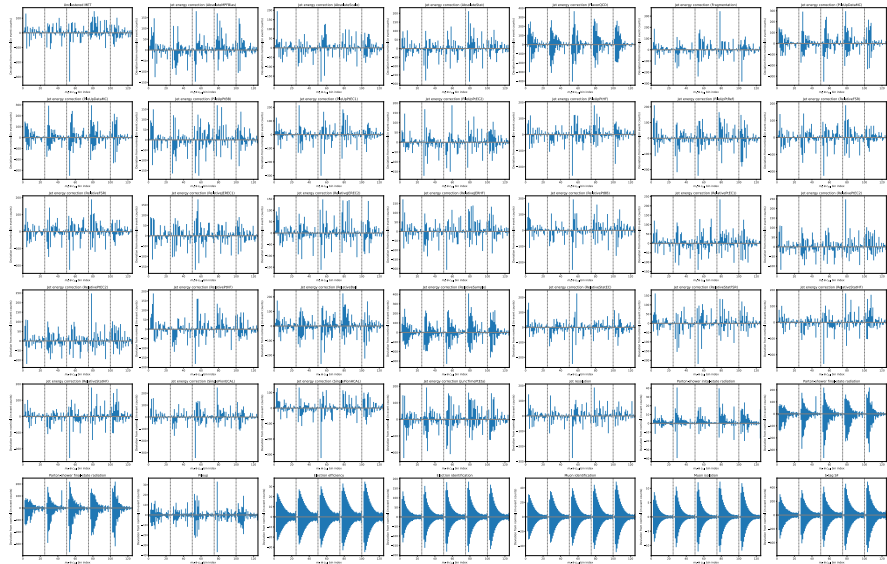
- Almost no difference visible, as expected

# Does ISR need smoothing?



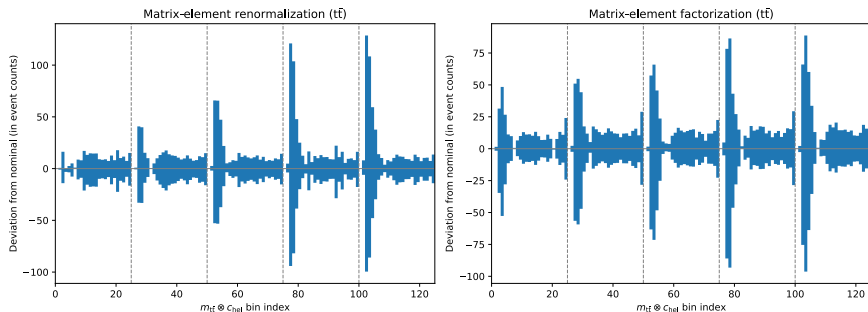
- Maybe.

# All the uncertainty shapes (1/2)





# All the uncertainty shapes (2/2)



# Thank you