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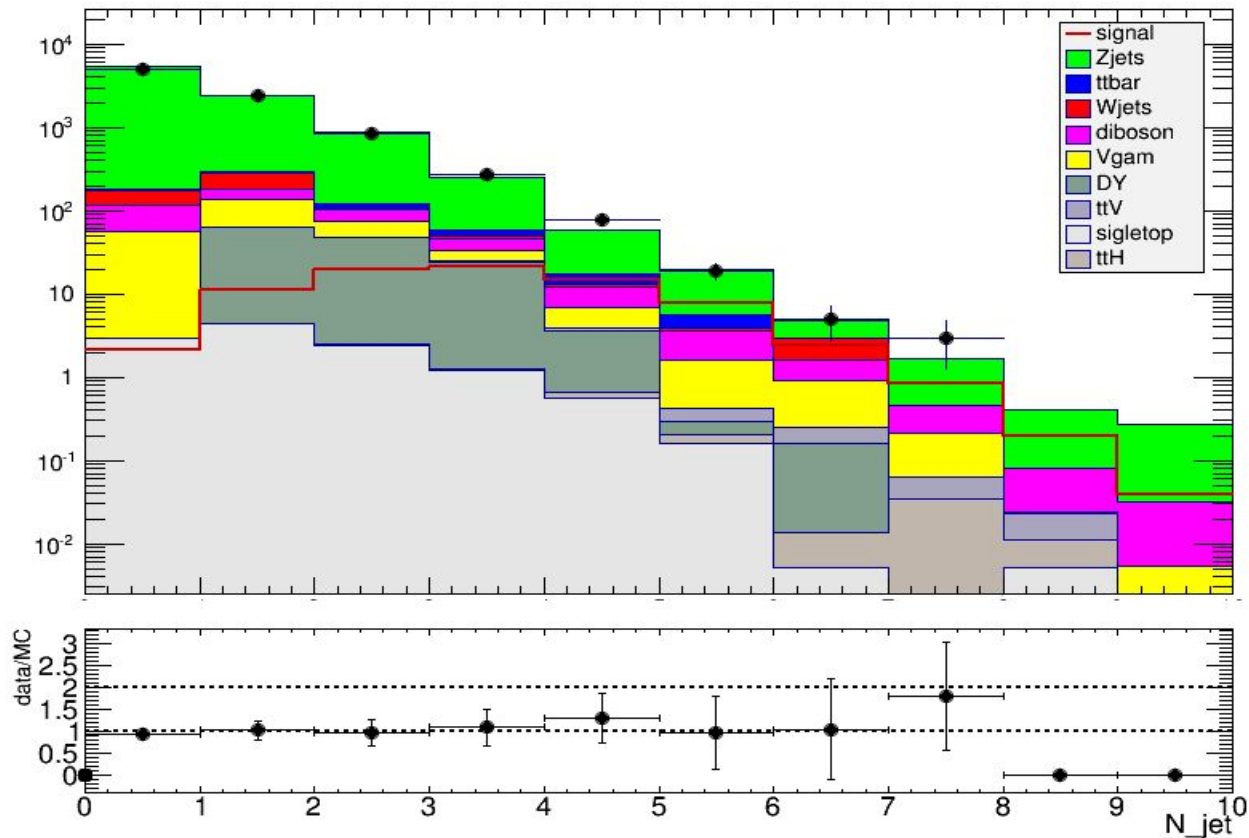
*Weekly*

Maosen Zhou

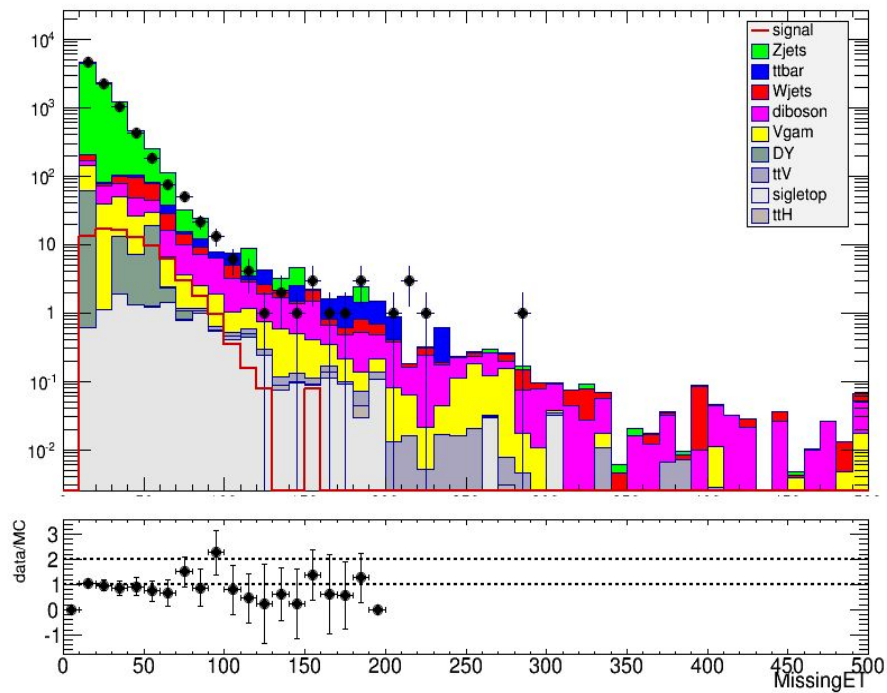
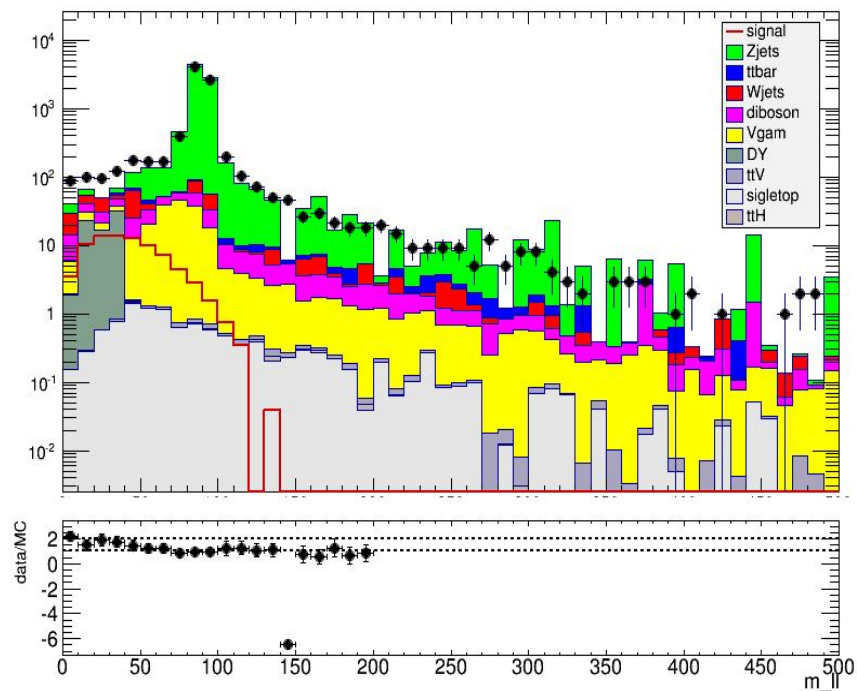
11 Apr, 2016

# Updates on data/MC with signal

- one error in the codes, #jets looks reasonable.
- signal from truth



continued



## summary and plan

- signal shape looks quite different from bkg, especially  $m_{ll}$
- W+jets bkg estimation: data-driven method
  - find CR for W+jets(SS id + antiid,  $\geq 4$  jets);
  - data 100% consistent with MC;
  - subtract other MC
    - for electron channel, - prompt SS MC( $W^+W^-$ )
    - for muon channel, - prompt SS MC - misChardID
  - left is treated as W+jets
  - times F.F. to get shape/number of W+jets contribution in SR
  - can show some results next week
- QT: begin implement MVA method into package to decide the discriminative variables between good and fake seeds, which in return could optimize seed finding?

# Backup