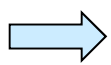




# Update:

- analysis with e+mu on-going:



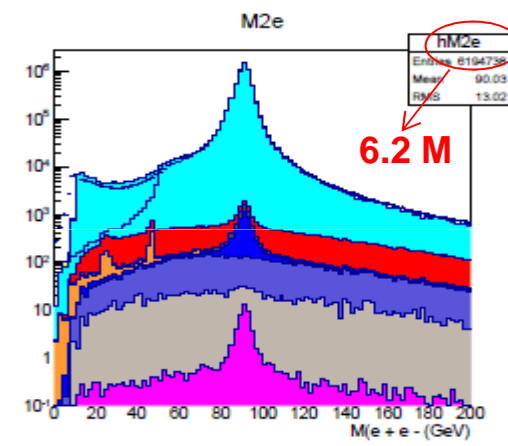
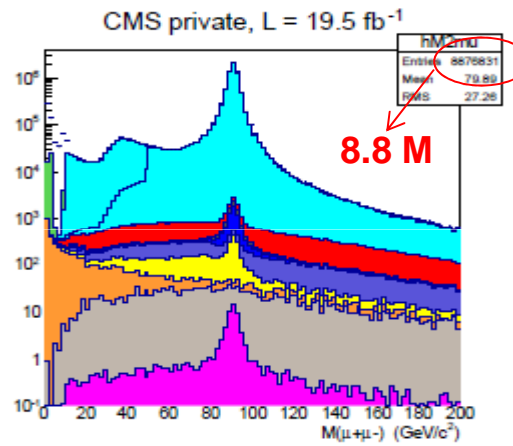
Electrons from MVA based selection now well understood (thanks to Alberto)

Z->ll control samples:

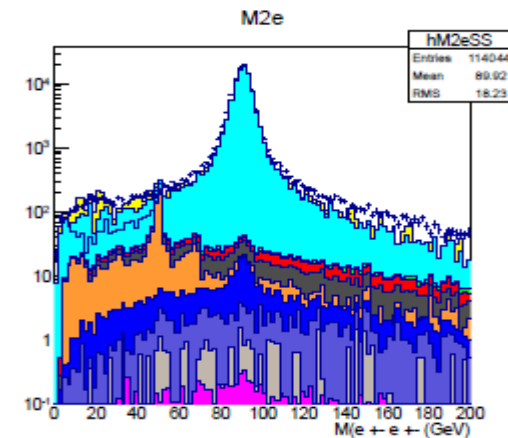
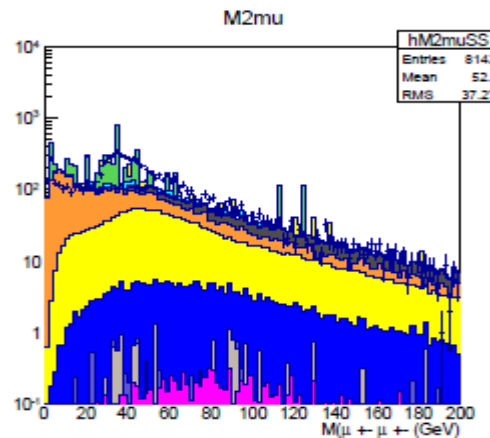
- W+jets
- W  $\gamma^*$
- Z Z/ $\gamma^*$
- Drell-Yan
- tt -> 2 $\mu$  X
- tt->  $\mu$  X
- WZ
- WW
- ZZ
- Single top
- ttW,ttH,WW

Z  $\rightarrow$   $\mu\mu$

Z  $\rightarrow$  ee



OS leptons

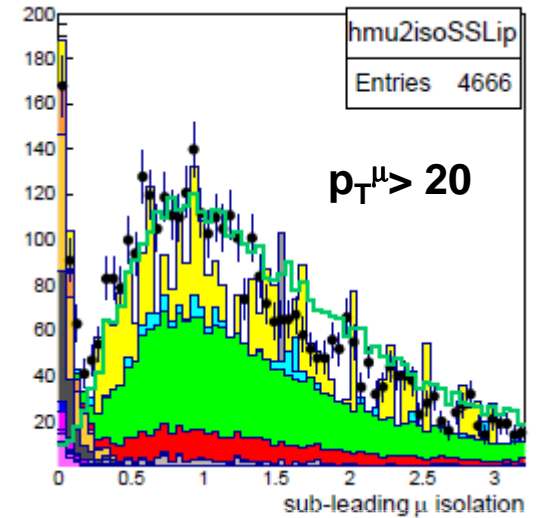
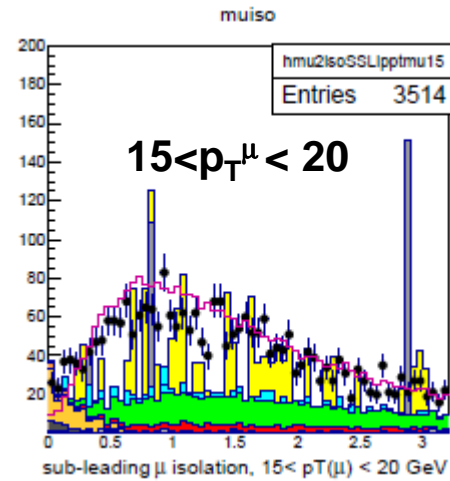
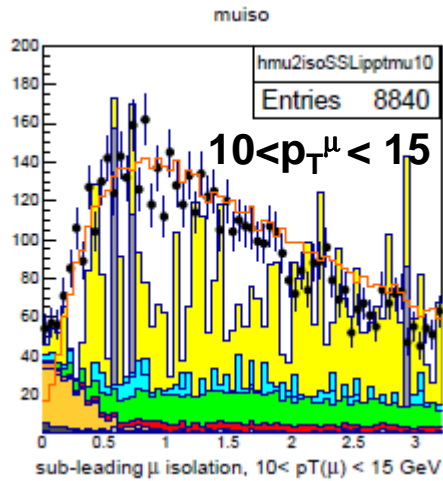


SS leptons

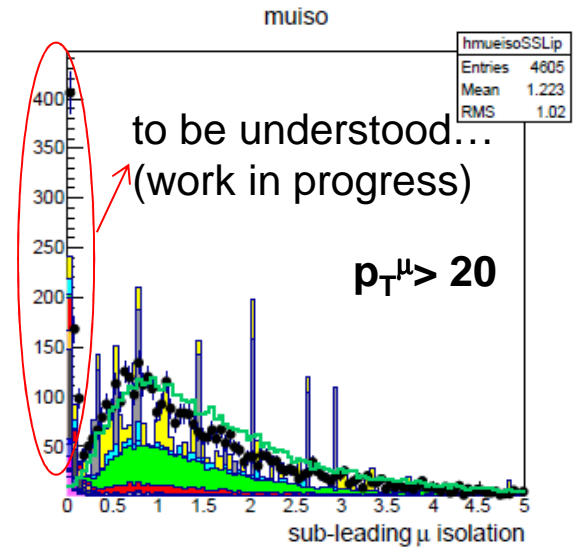
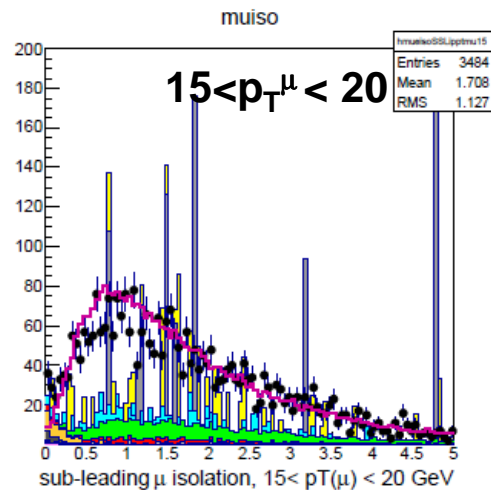
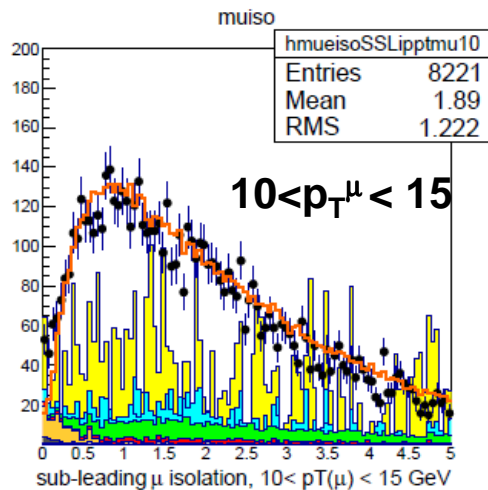


# SS leptons: sub-leading muon isolation

$\mu\mu$   
sample:



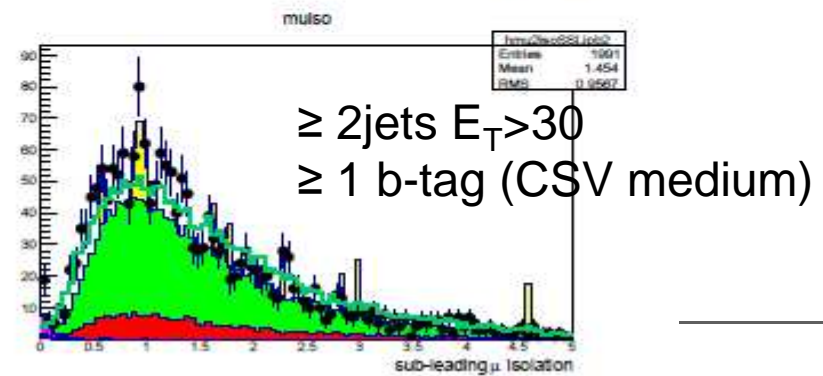
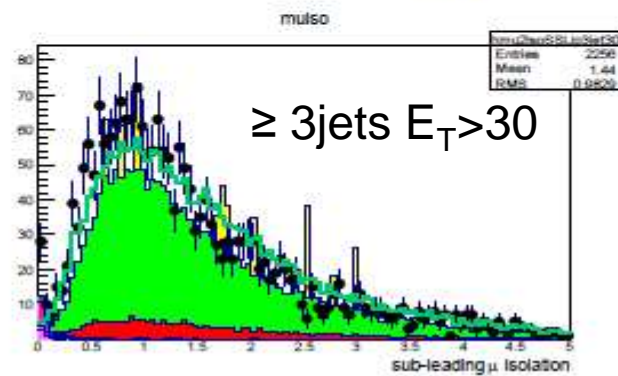
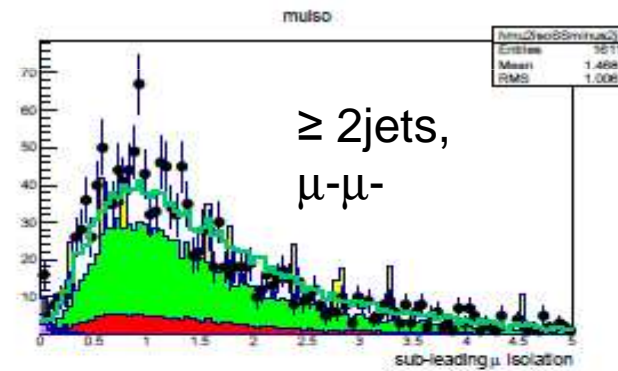
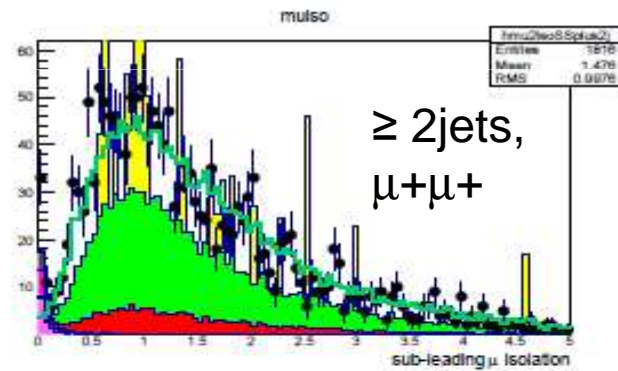
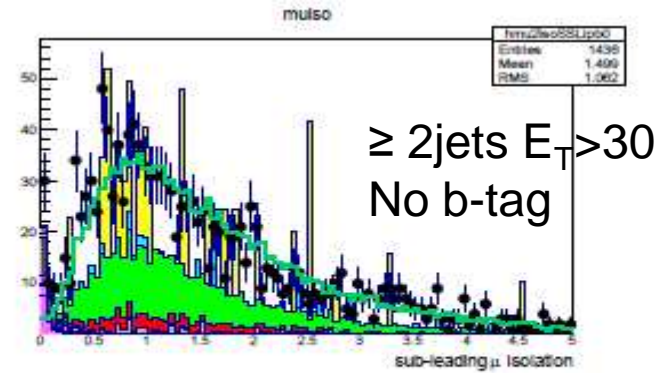
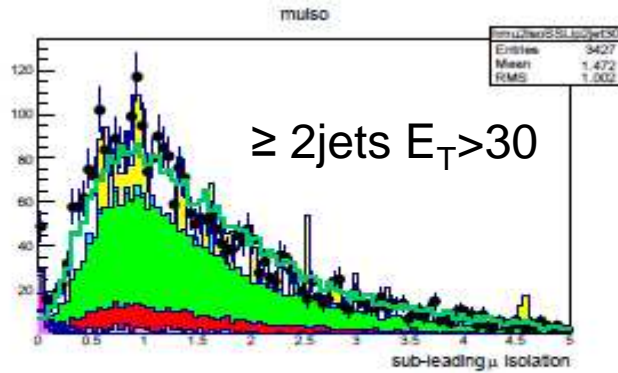
$e\mu$   
sample:





# SS muons +jets

- W+jets
- W  $\gamma^*$
- Z Z/ $\gamma^*$
- Drell-Yan
- tt  $\rightarrow$  2 $\mu$  X
- tt  $\rightarrow$   $\mu$  X
- WZ
- WW
- ZZ
- Single top
- QCD
- ttW, ttH, WW
- W+W+, W-W-





# SS $e-\mu$

- W+jets
- W  $\gamma^*$
- Z  $Z/\gamma^*$
- Drell-Yan
- tt  $\rightarrow 2\mu$  X
- tt  $\rightarrow \mu$  X
- WZ
- WW
- ZZ
- Single top
- QCD
- ttW, ttH, WW
- W+W+, W-W-

