

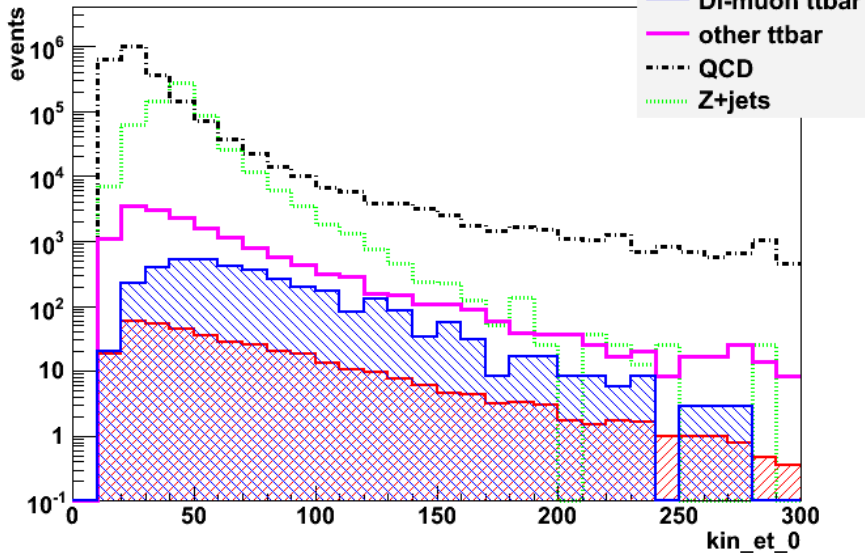
Niklas Pietsch

SUSY-Meeting May 12th, 2009

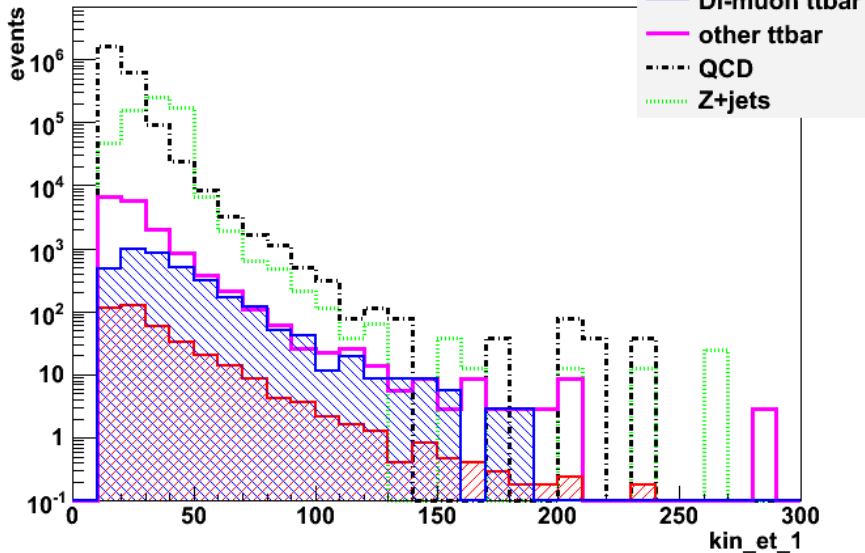
Di-muon- $t\bar{t}$ -decay

- Samples:
 - ▶ SUSY LM3 (with at least one top-quark in each event)
 - ▶ Di-muon- $t\bar{t}$
 - ▶ Other $t\bar{t}$ -background
 - ▶ QCD
 - ▶ Z+Jets
- Preselection-cuts:
 - ▶ $|\eta(\text{muon})| < 2.5$ (2 leading muons)
 - ▶ $p_t(\text{muon}) > 15\text{GeV}$ (2 leading muons)

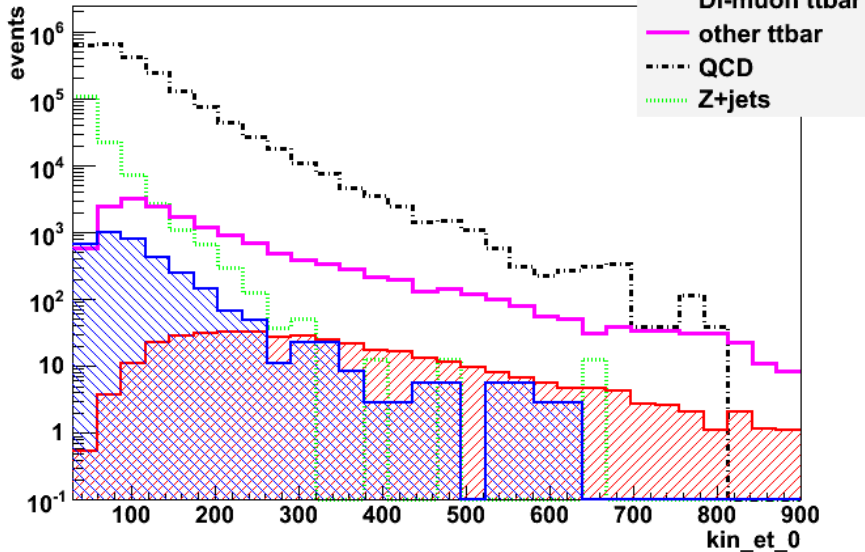
preselection: muon $|\eta| < 2.5$, muon $p_T > 15$



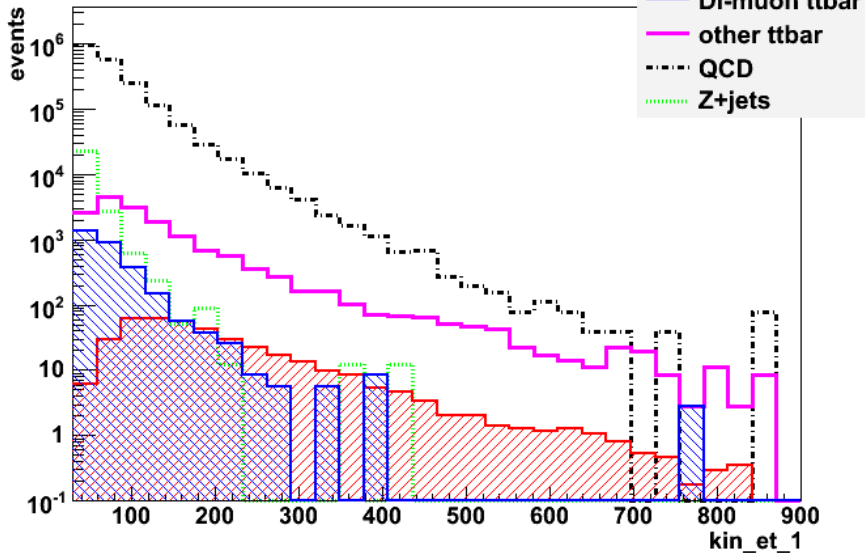
preselection: muon $|\eta| < 2.5$, muon $p_T > 15$



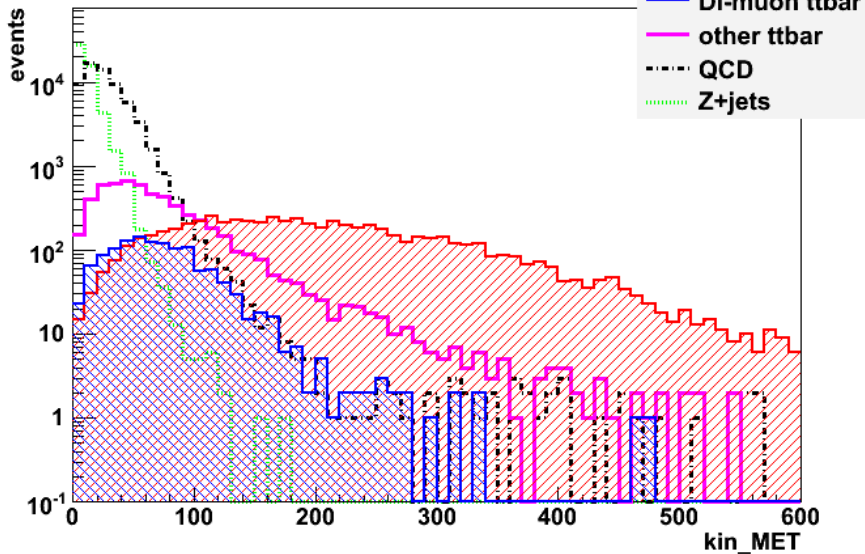
preselection: muon $|\eta| < 2.5$, muon $p_T > 15$



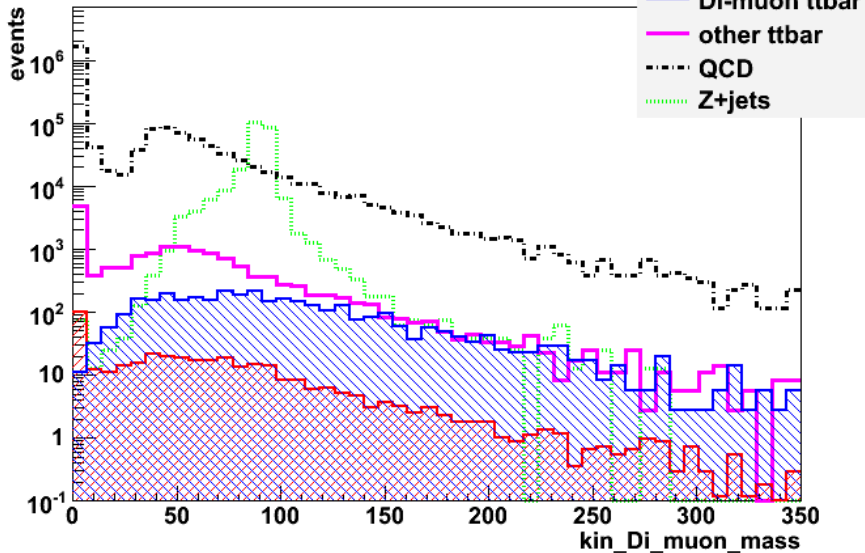
preselection: muon $|\eta| < 2.5$, muon $p_T > 15$



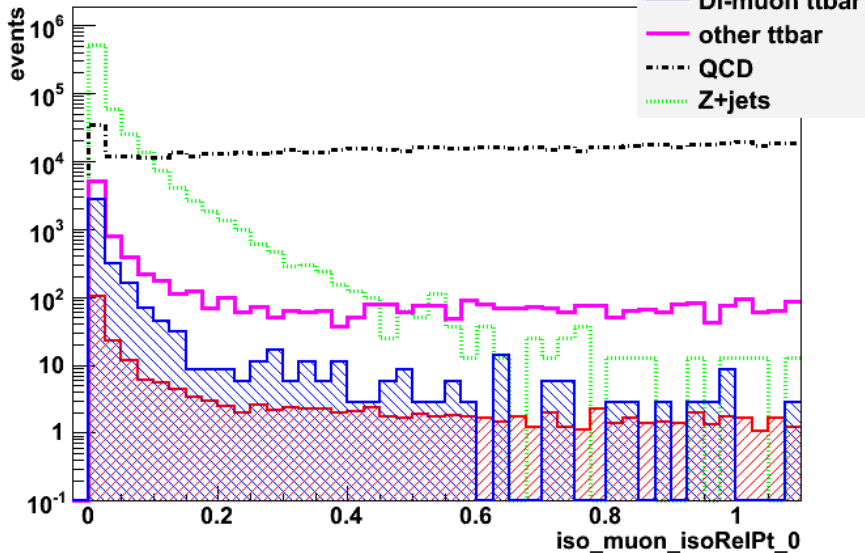
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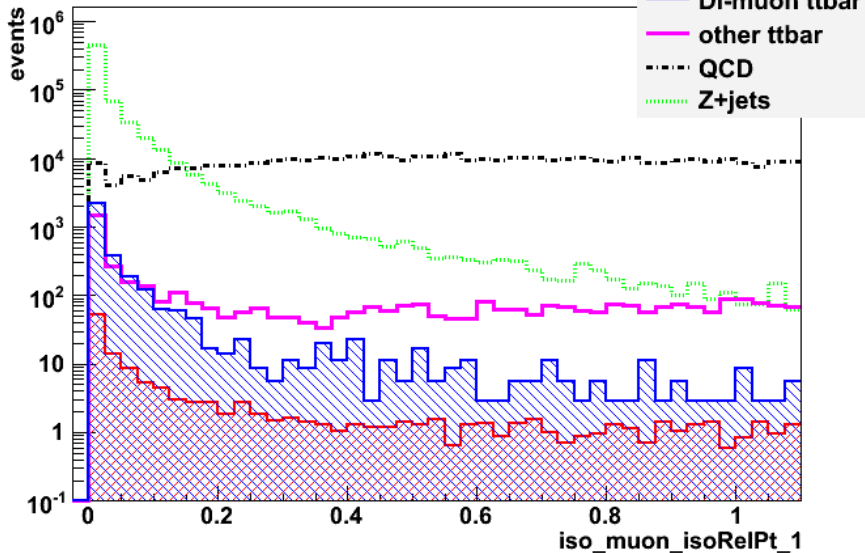
preselection: muon $|\eta| < 2.5$, muon $p_T > 15$



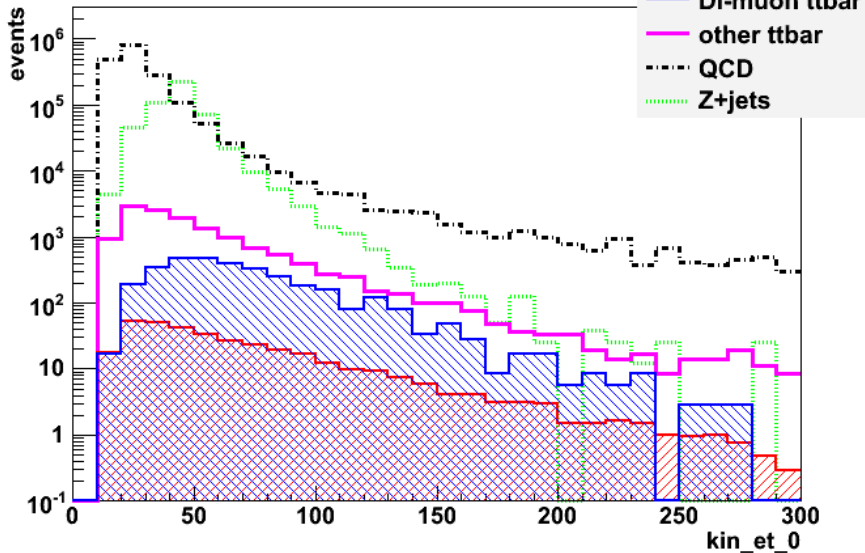
preselection: muon $|\eta| < 2.5$, muon $p_T > 15$



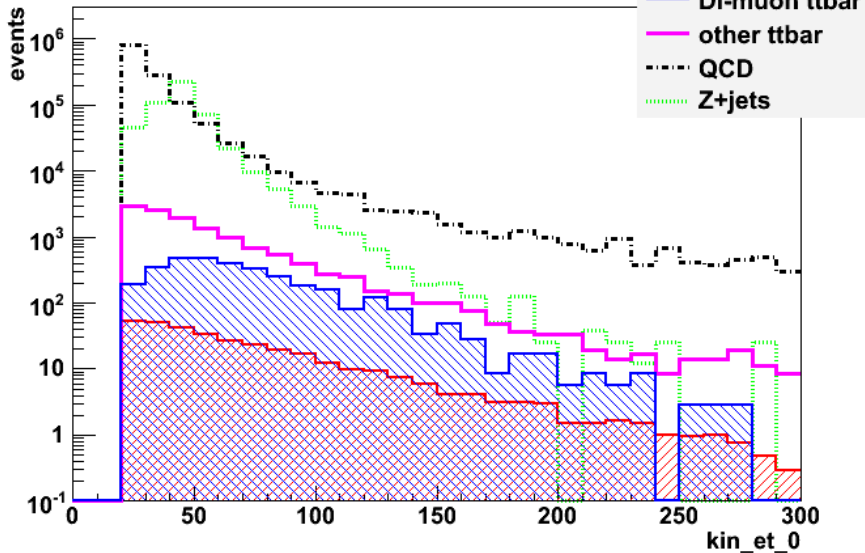
preselection: muon $|\eta| < 2.5$, muon $p_T > 15$



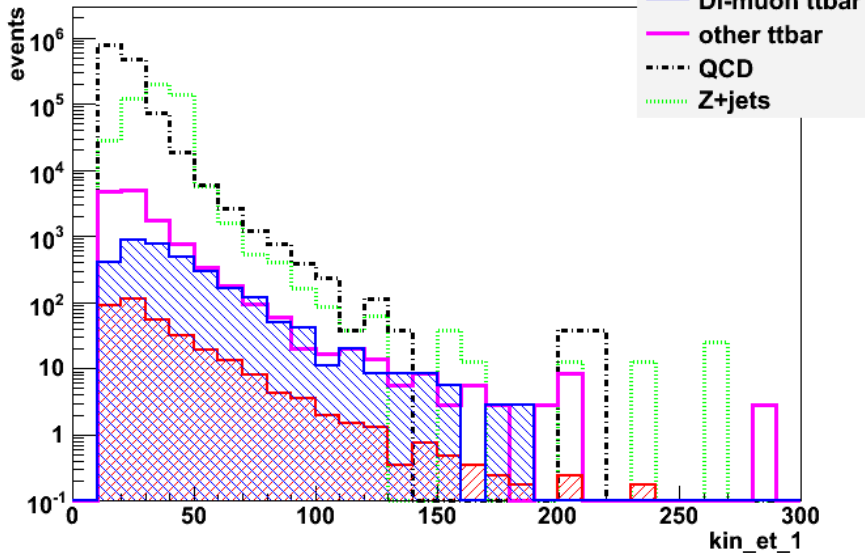
+ muon2 $|\eta| < 2.1$



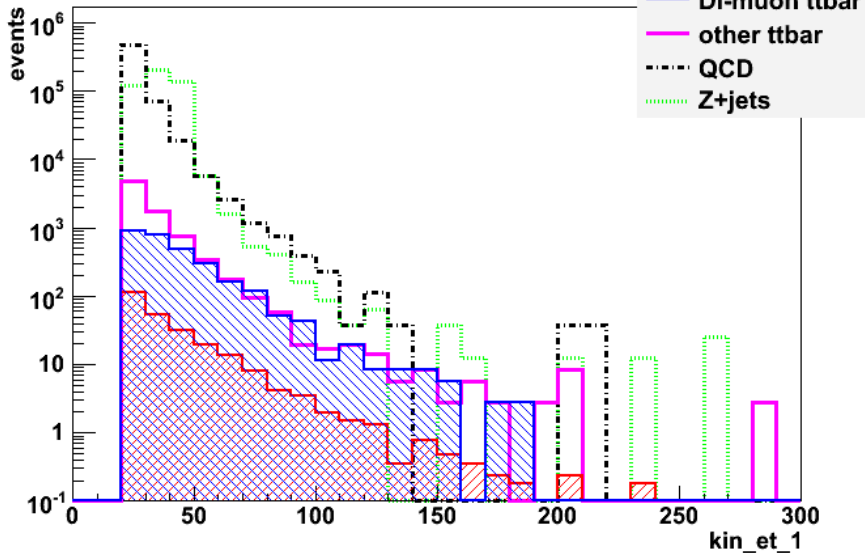
+ muon1 $p_T > 20$



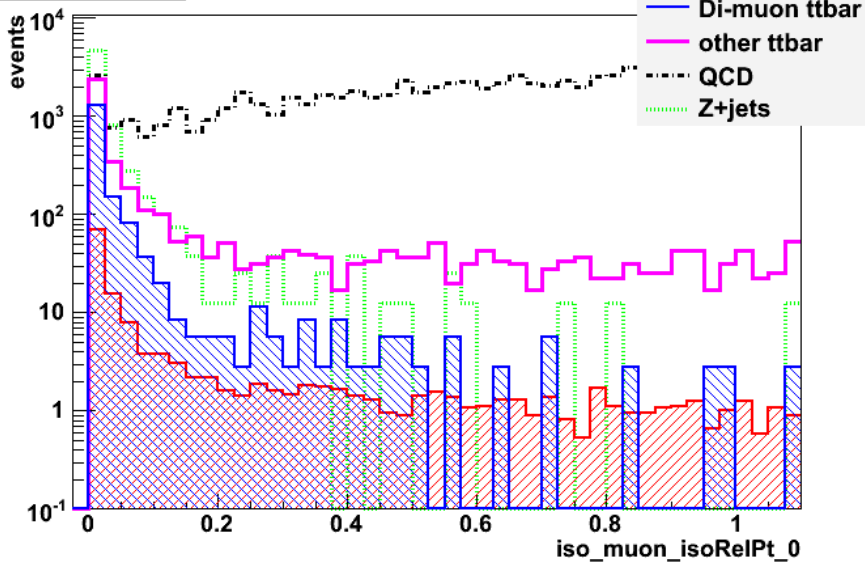
+ muon1 $p_T > 20$



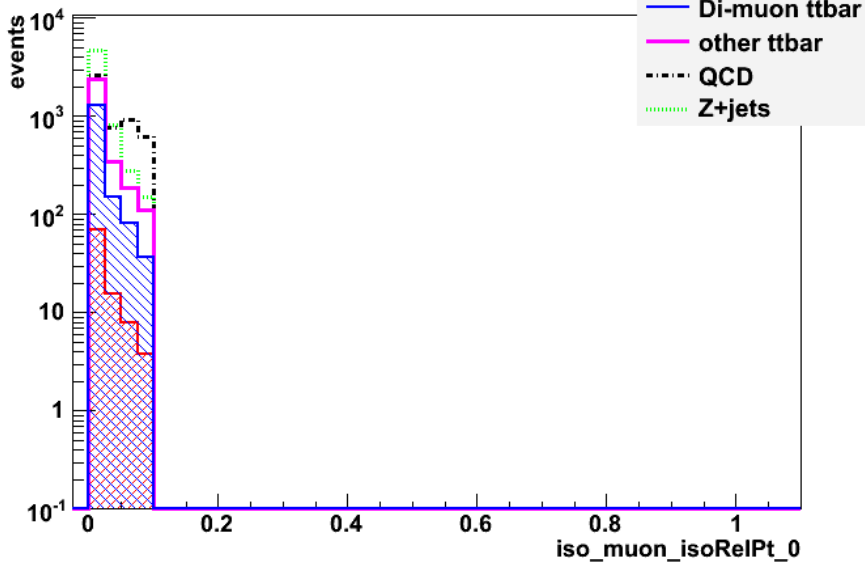
+ muon2 $p_T > 20$



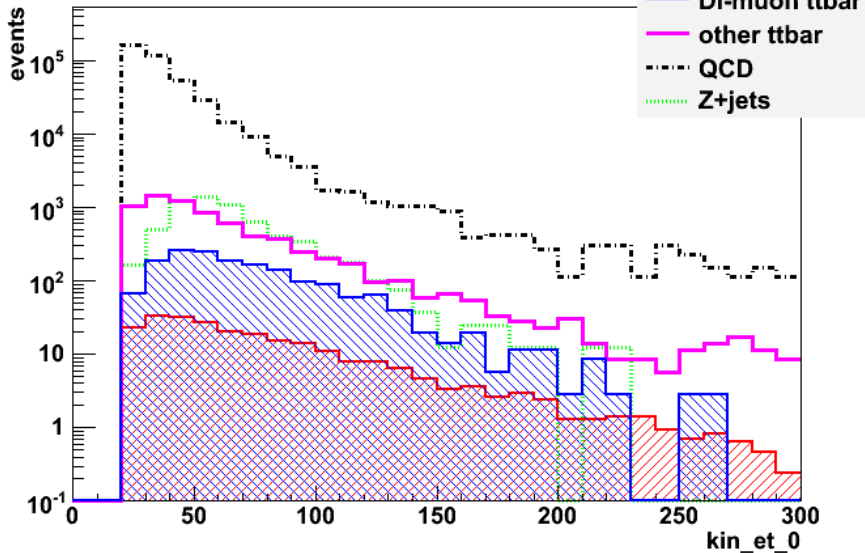
+ jet2 $p_T > 40$



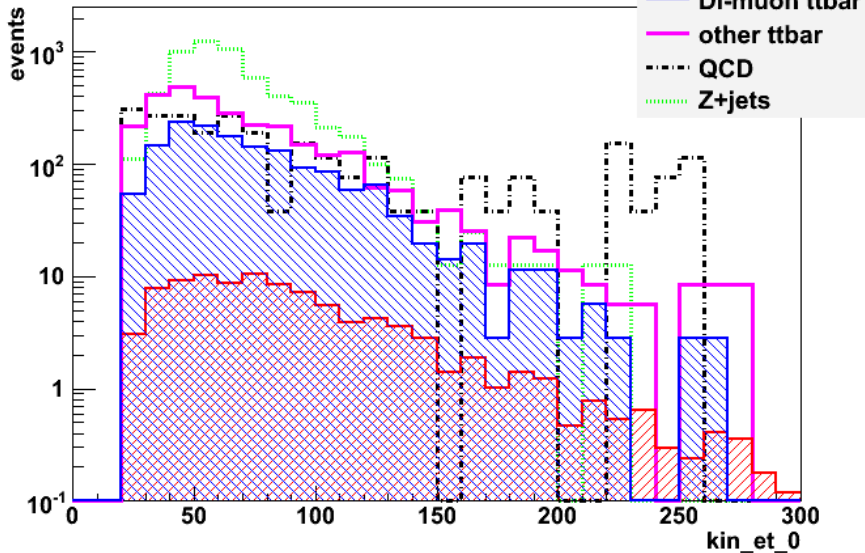
+ muon1 iso.



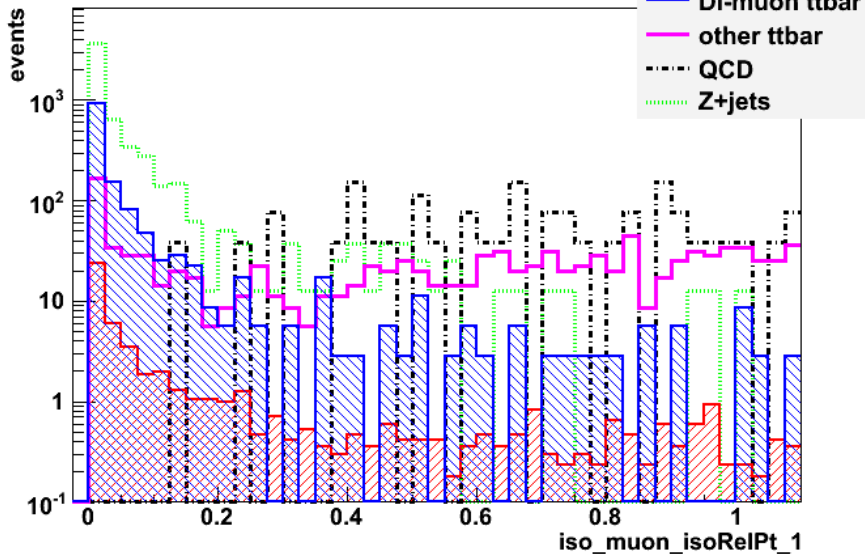
+ jet2 $p_T > 40$



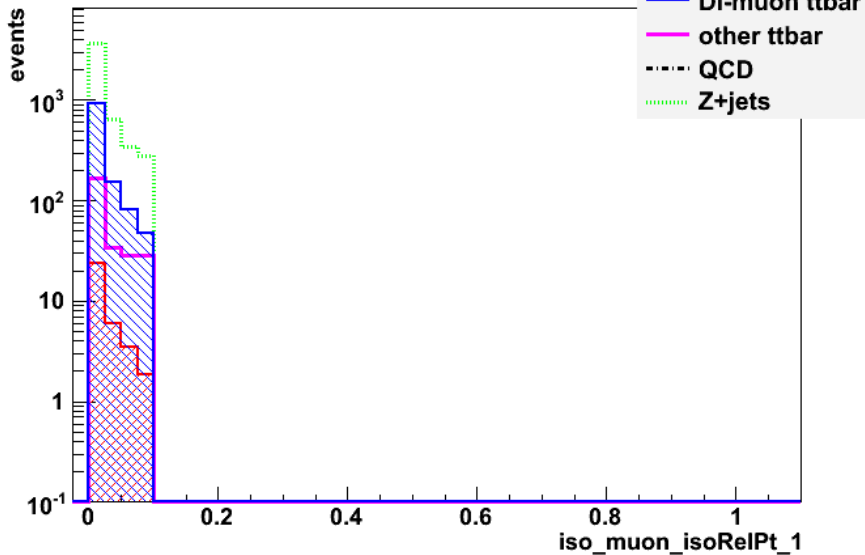
+ muon1 iso.



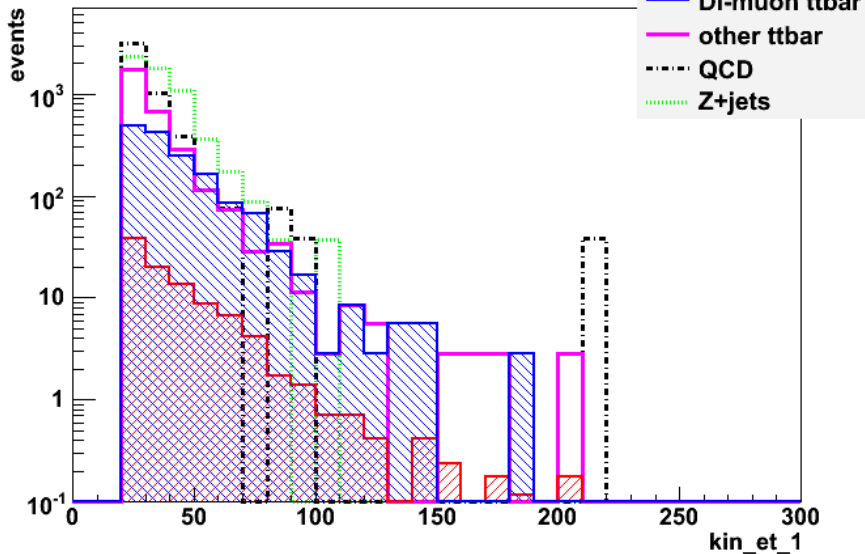
+ muon1 iso.



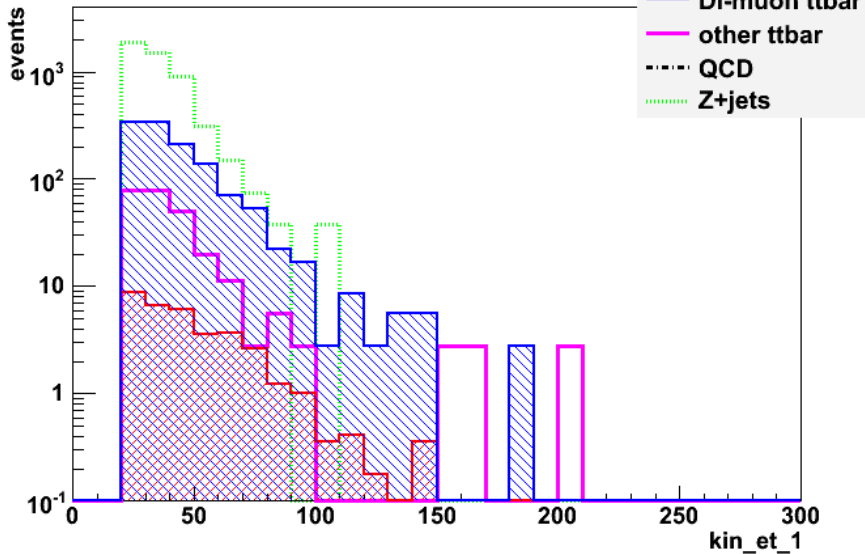
+ muon2 iso.



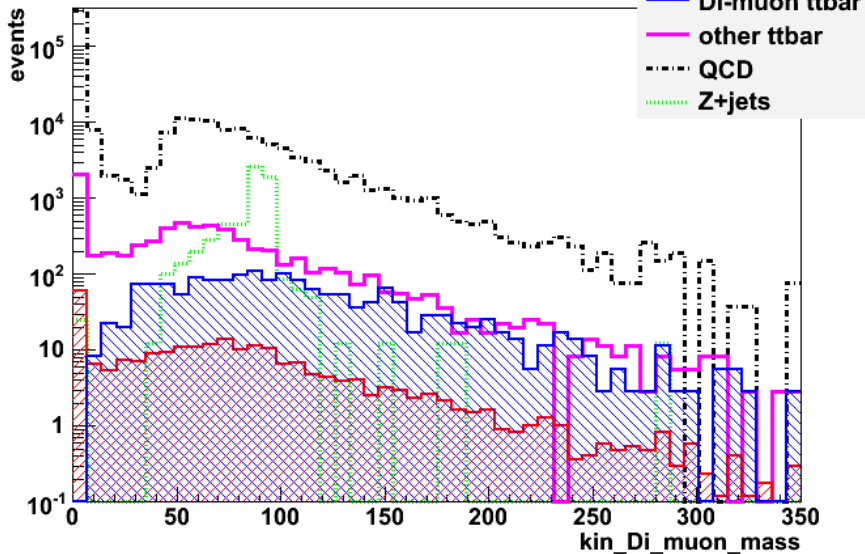
+ muon1 iso.



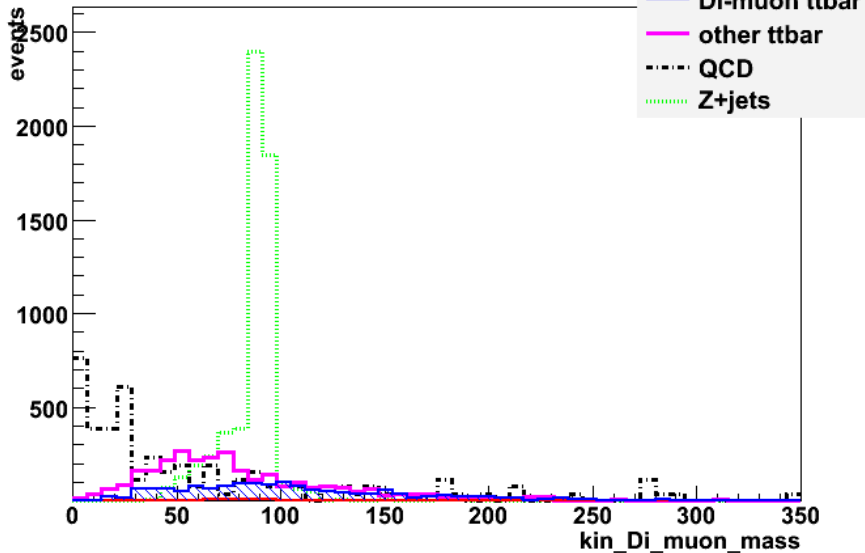
+ muon2 iso.



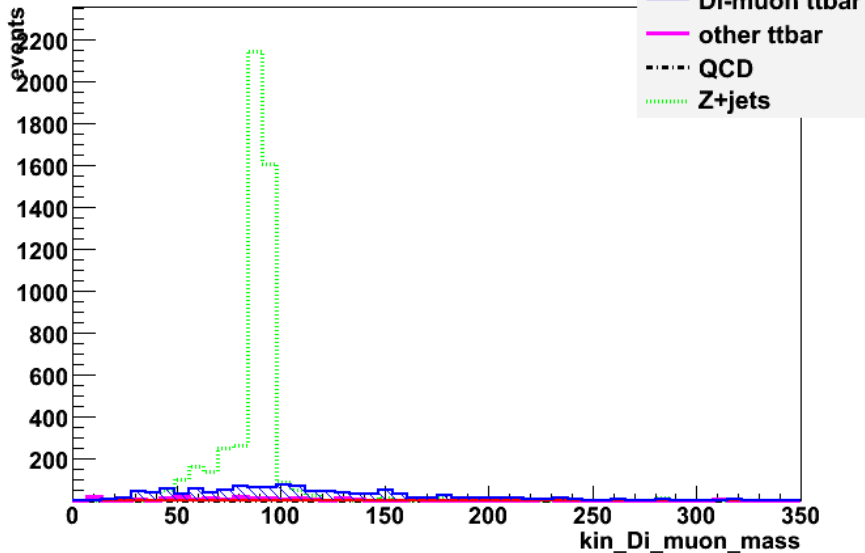
+ jet2 $p_T > 40$



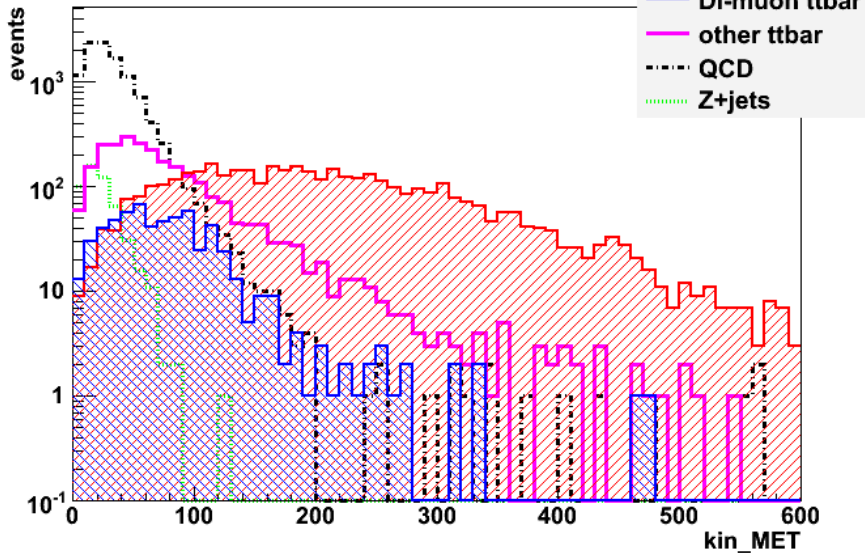
+ muon1 iso.



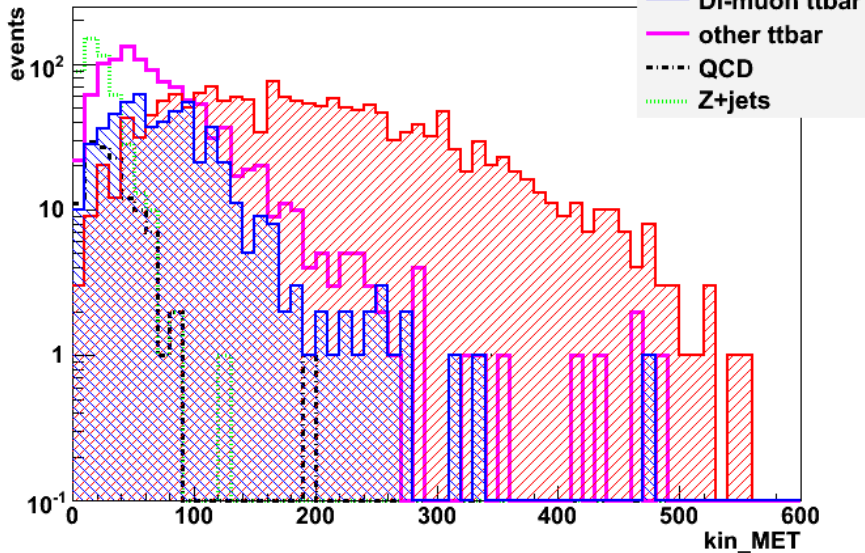
+ muon2 iso.



+ jet2 $p_T > 40$



+ muon1 iso.



+ muon2 iso.

