Status Report

2015. 12. 14

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Action Item

- Background Estimation (update)
 - Normalization Factor (luminosity update)
 - Numbers
 - THStack
- Efficiency-mass plot
- Cross Section update

Normalization Factor

	σ	N_{total} (weighted)	Norm. Factor	$N_{\it sel}$ (weighted)	$N_{sel} \cdot F_{norm}$
DYMuMu	2008.4×3	4.53×10^{11}	7.57×10^{-6}	4.58×10^{10}	346706
DYTauTau	2008.4×3	4.53×10^{11}	7.57×10^{-6}	2.75×10^7	208.175
ttbar	831.76	19,900,300	2.38×10^{-2}	83,450	1985
WW	118.7	994,416	6.79×10^{-2}	3,476	236
WZ	66.1	999,248	3.76×10^{-2}	22,984	865
ZZ	15.4	996,944	8.79×10^{-3}	44,652	392
BG					3686.175
Total					350392.175
Data					350665

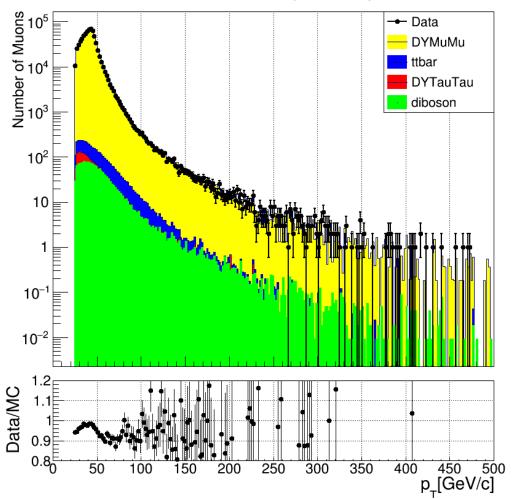
$$Normalization \ Factor = \frac{L \times \sigma}{N_{total}}$$

$$N_{sig} = (N_{sel} - N_{BG}) \times 0.97$$

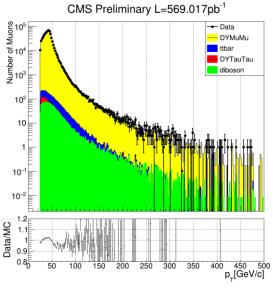
= 336569

THStack p_T



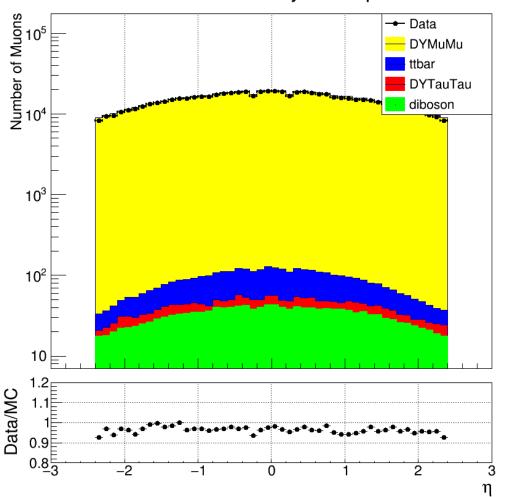


DYMuMu	346706
ttbar	1985
DYTauTau	208.175
Diboson	1493

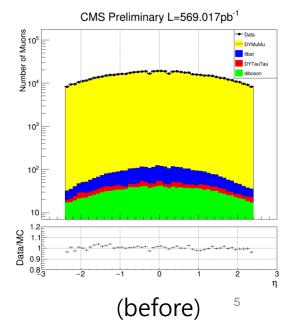


THStack η

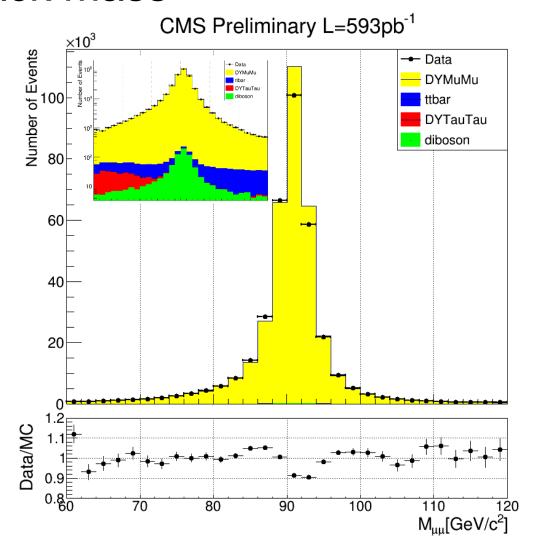




DYMuMu	346706
ttbar	1985
DYTauTau	208.175
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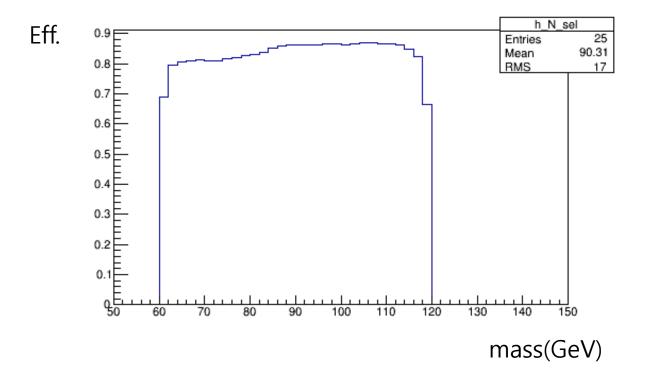


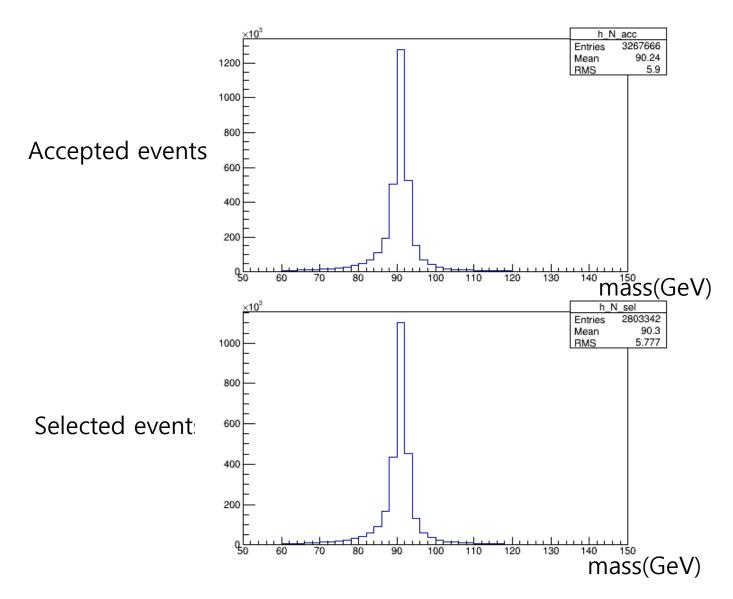
THStack mass



DYMuMu	173353
ttbar	992.5
DYTauTau	104.088
Diboson	746.5

Efficiency-mass plot





Cross section update

- Luminosity = 592.563
- Acceptance = 0.359
- Efficiency = 0.858
- $\sigma = 1844.051 \pm 3.788(stat.) \pm 184.405(lum.)$
- $(\sigma_{th} = 1868)$

2015, 12, 14