

■ **Systematic uncertainty**

■ **Missing closure point**

○ $\mu + \text{jets} \rightarrow e + \text{jets}$ (0 b-tags)

× $\mu + \text{jets} \rightarrow e + \text{jets}$ (1 b-tags)

□ $\mu + \text{jets} \rightarrow e + \text{jets}$ (≥ 2 b-tags)

△ 0 b-tags \rightarrow 1 b-tag ($\mu + \text{jets}$)

⊕ 1 b-tags \rightarrow ≥ 2 b-tag ($\mu + \text{jets}$)

☆ $e + \text{jets} \rightarrow \gamma + \text{jets}$ (0 b-tags)

▽ $e + \text{jets} \rightarrow \gamma + \text{jets}$ (1 b-tags)

◇ $\mu + \text{jets} \rightarrow \mu\mu + \text{jets}$ (0 b-tags)

✱ $\mu + \text{jets} \rightarrow \mu\mu + \text{jets}$ (1 b-tags)

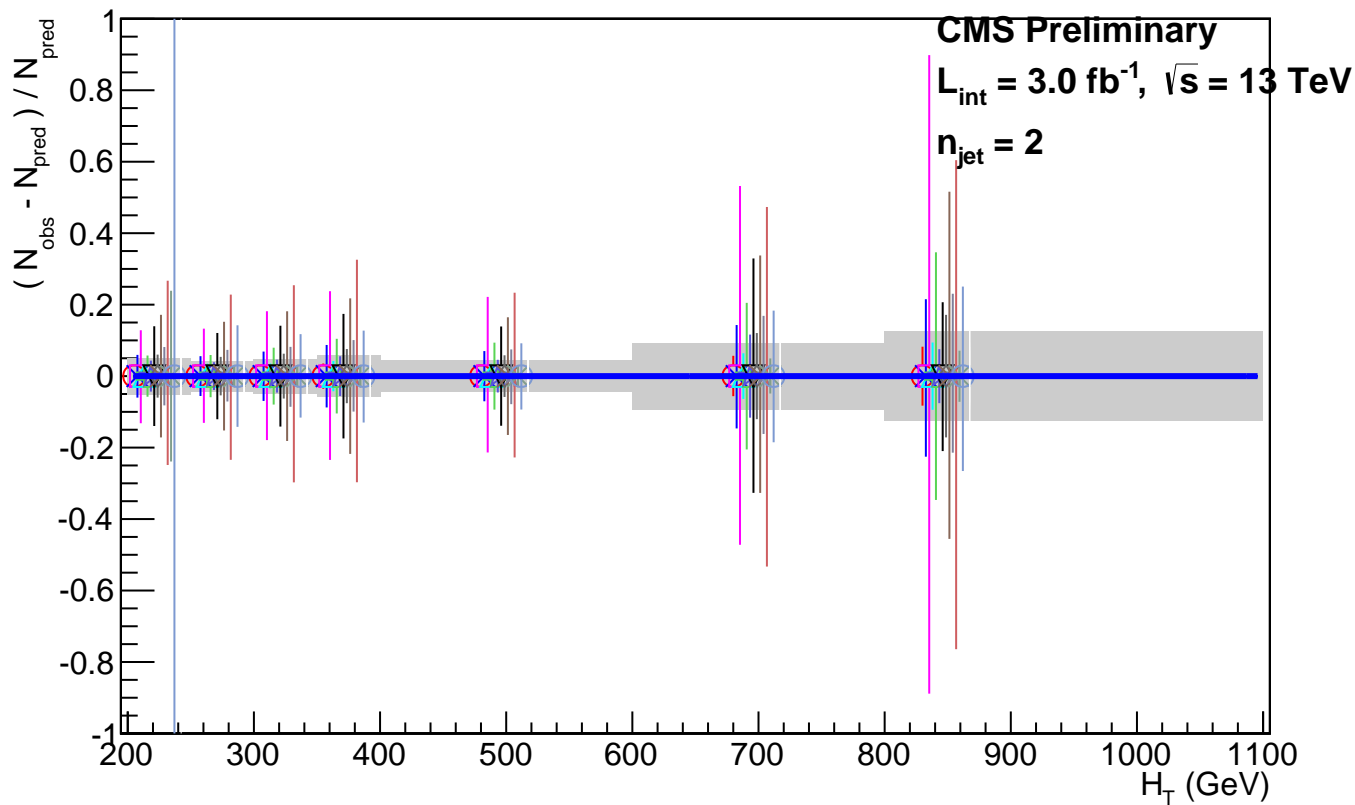
★ $ee + \text{jets} \rightarrow \gamma + \text{jets}$ (0 b-tags)

⊕ $ee + \text{jets} \rightarrow \gamma + \text{jets}$ (1 b-tags)

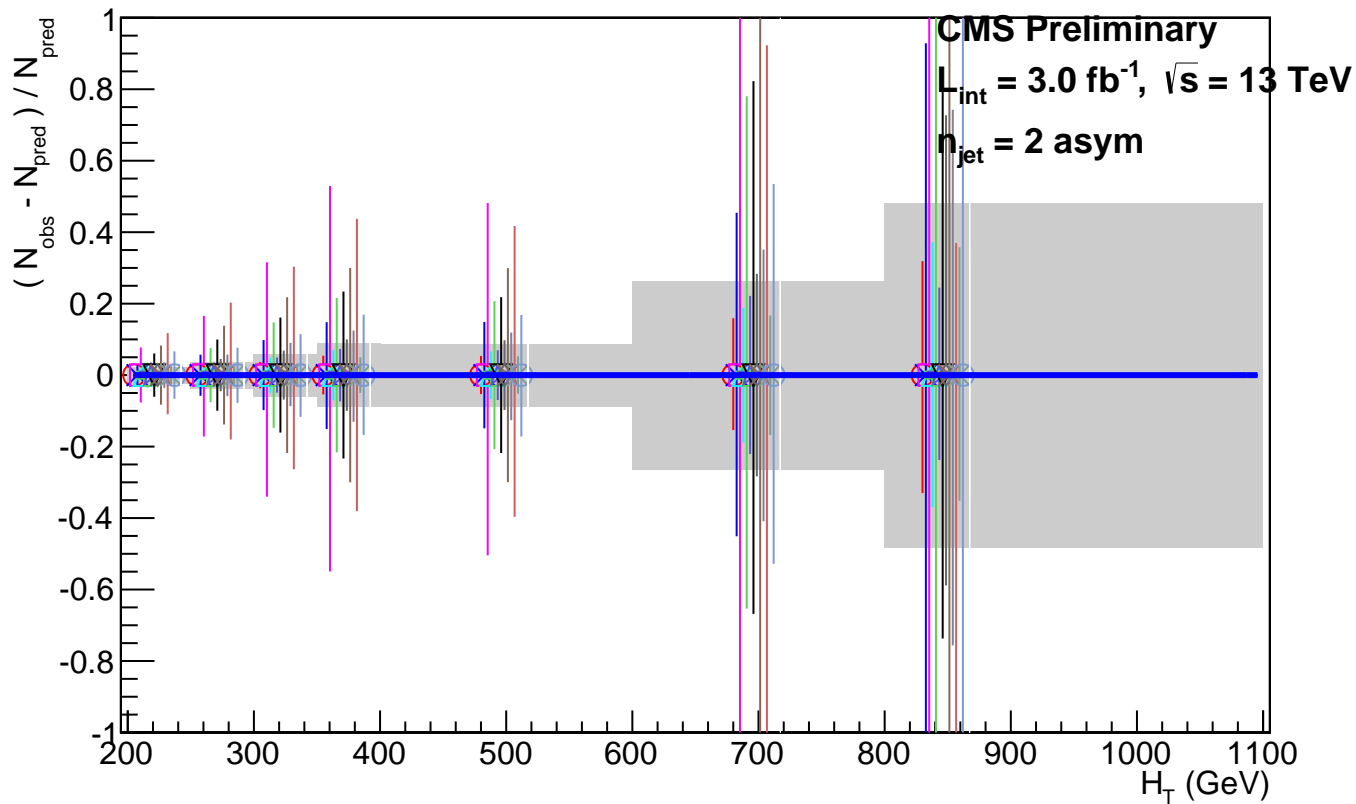
✱ $N_{\text{jet}} = 2 \rightarrow N_{\text{jet}} = 3$ ($e + \text{jets}$)

○ $N_{\text{jet}} = 2 \rightarrow N_{\text{jet}} = 3$ ($ee + \text{jets}$)

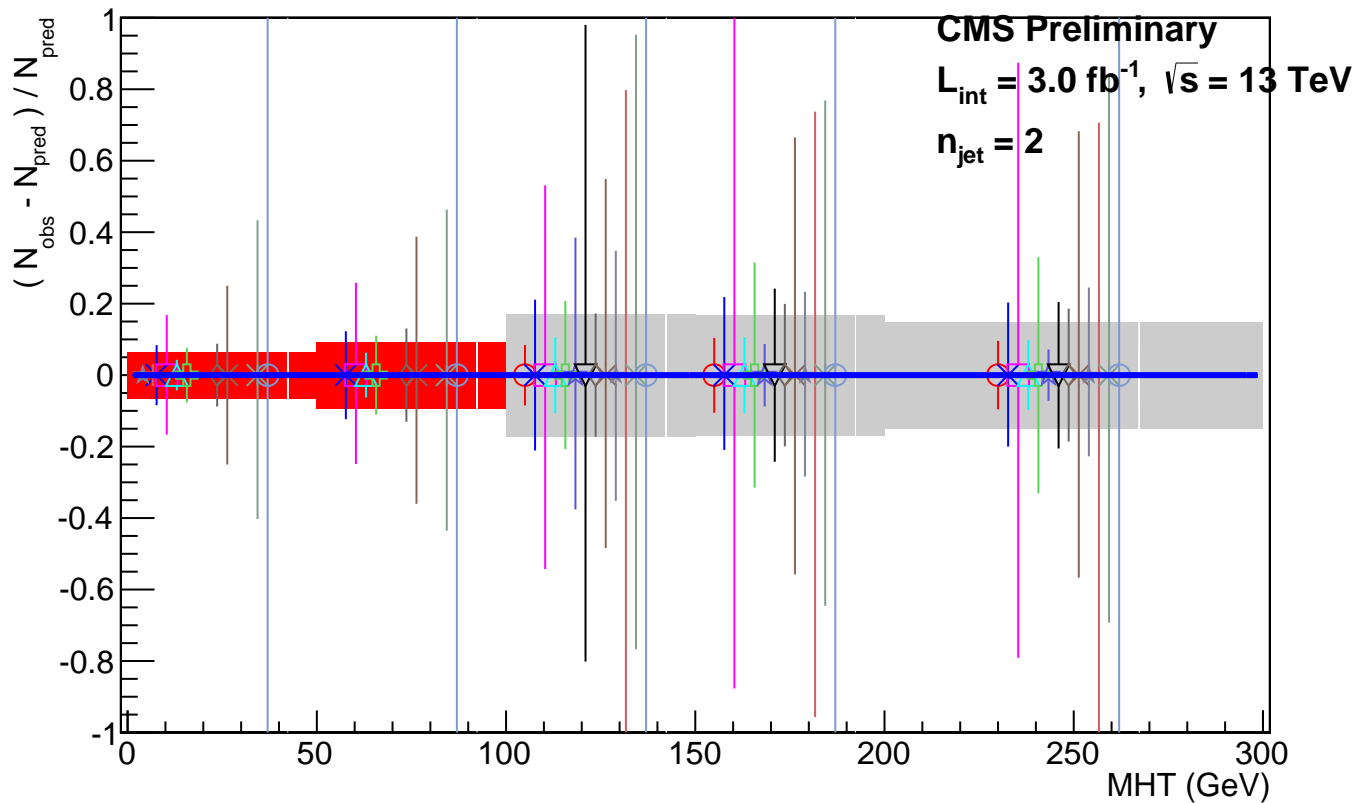
ht40_nJet40_eq_2_0 eq2j



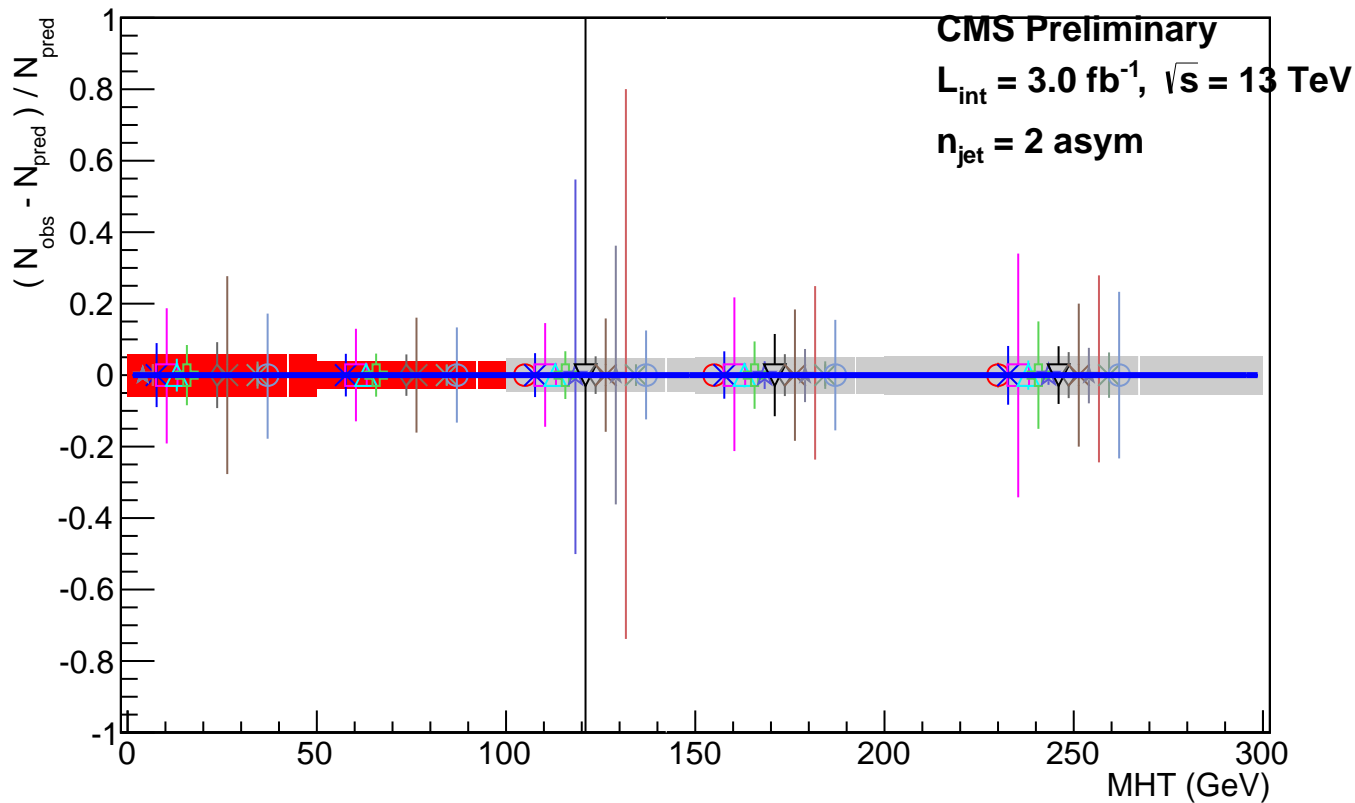
ht40_nJet40_eq_2_Asym_0 eq2a



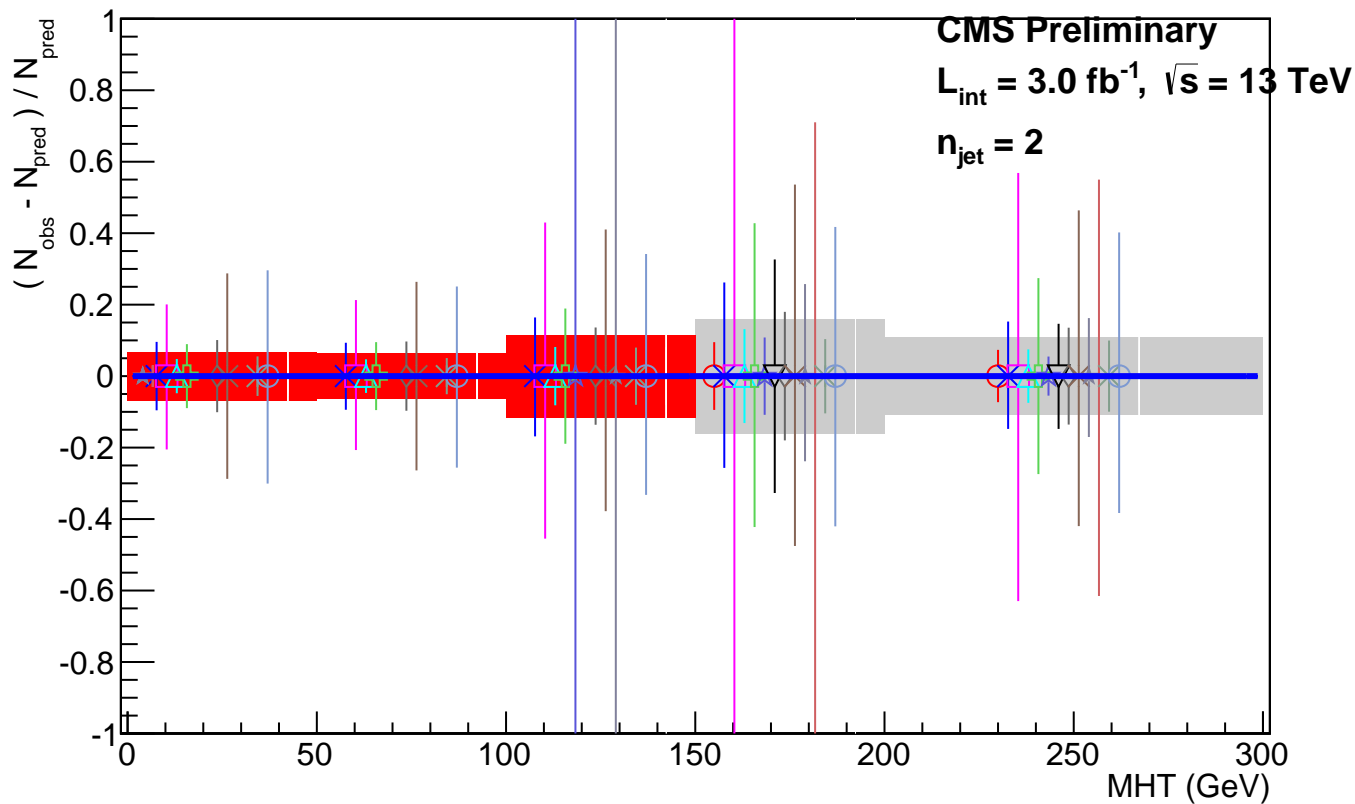
mht40_pt_nJet40_eq_2_ht40_ge_200.0_ht40_lt_250.0_0 eq2j



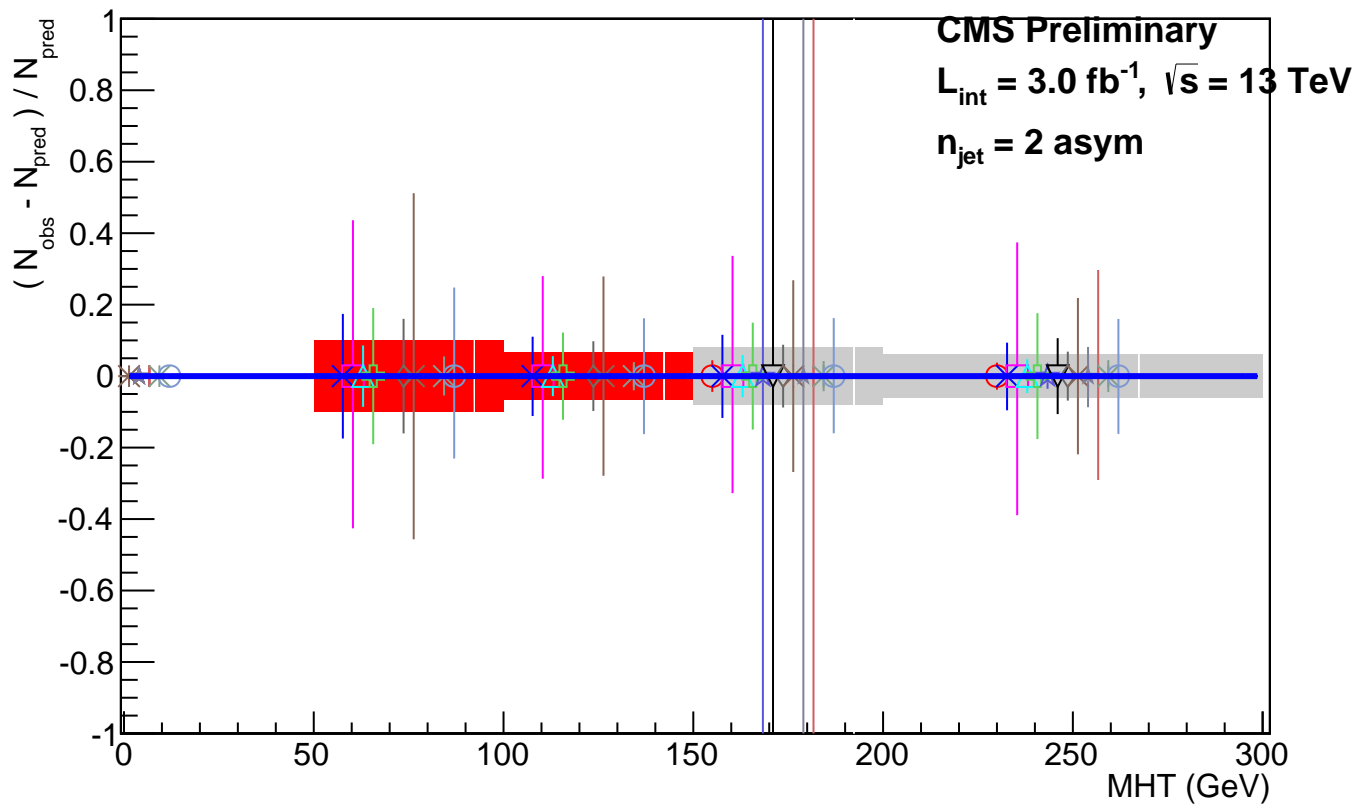
mht40_pt_nJet40_eq_2_ht40_ge_200.0_ht40_lt_250.0_Asym_0 eq2a



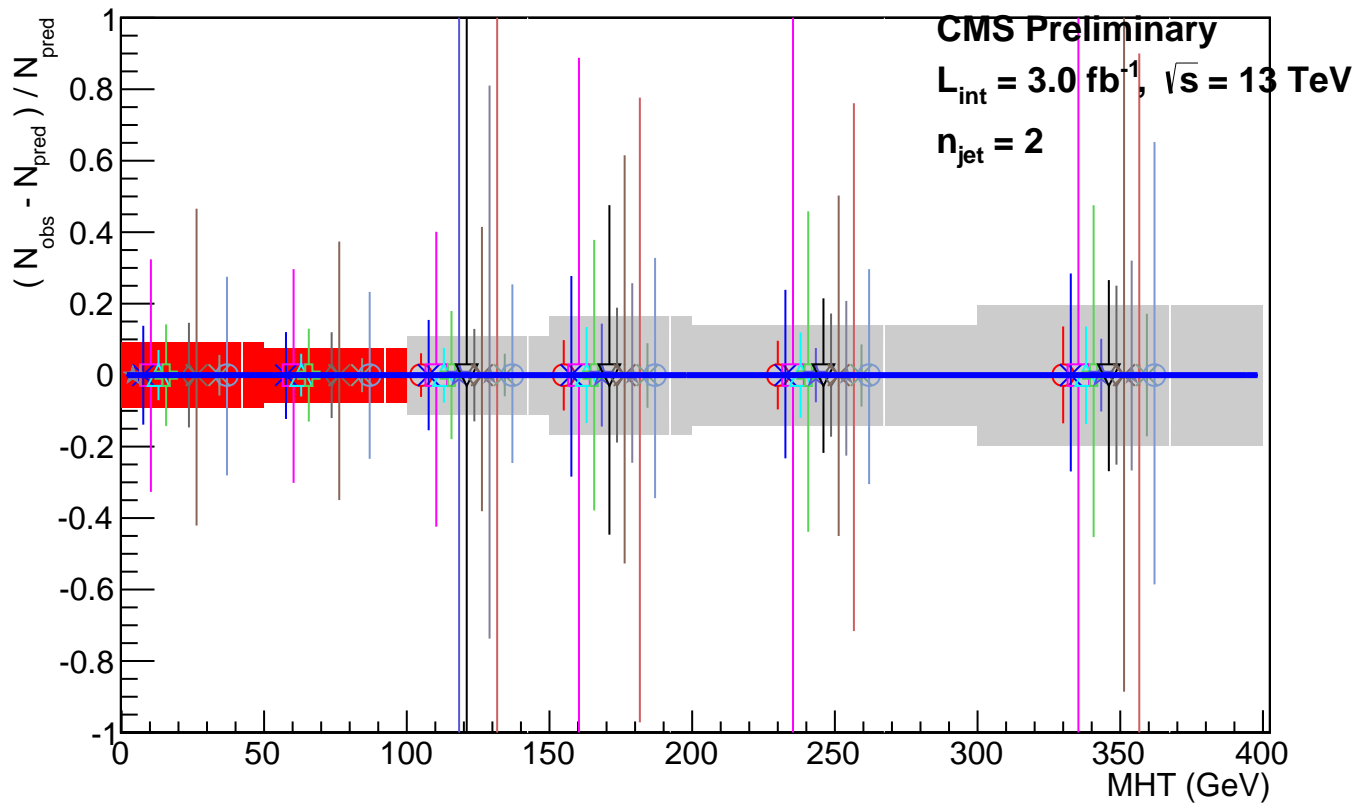
mht40_pt_nJet40_eq_2_ht40_ge_250.0_ht40_lt_300.0_0 eq2j



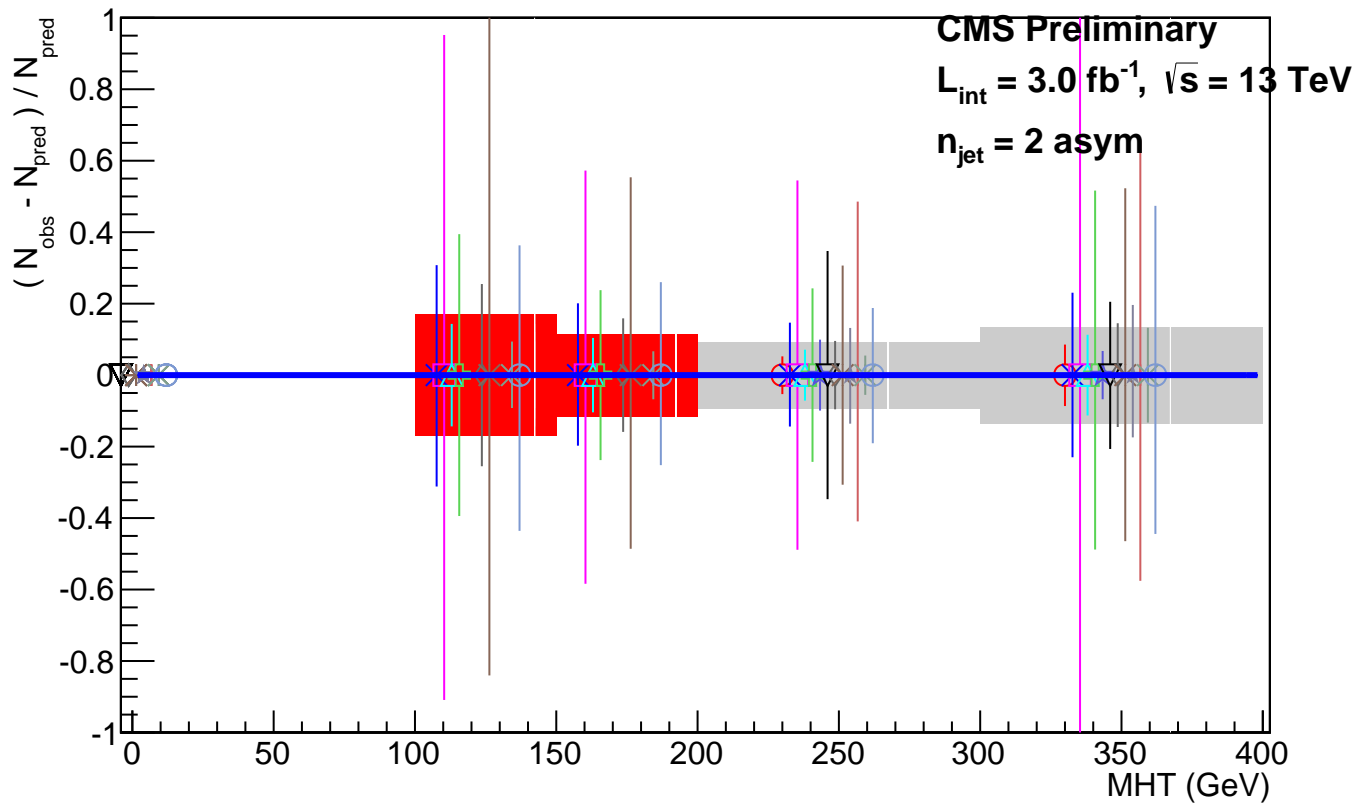
mht40_pt_nJet40_eq_2_ht40_ge_250.0_ht40_lt_300.0_Asym_0 eq2a



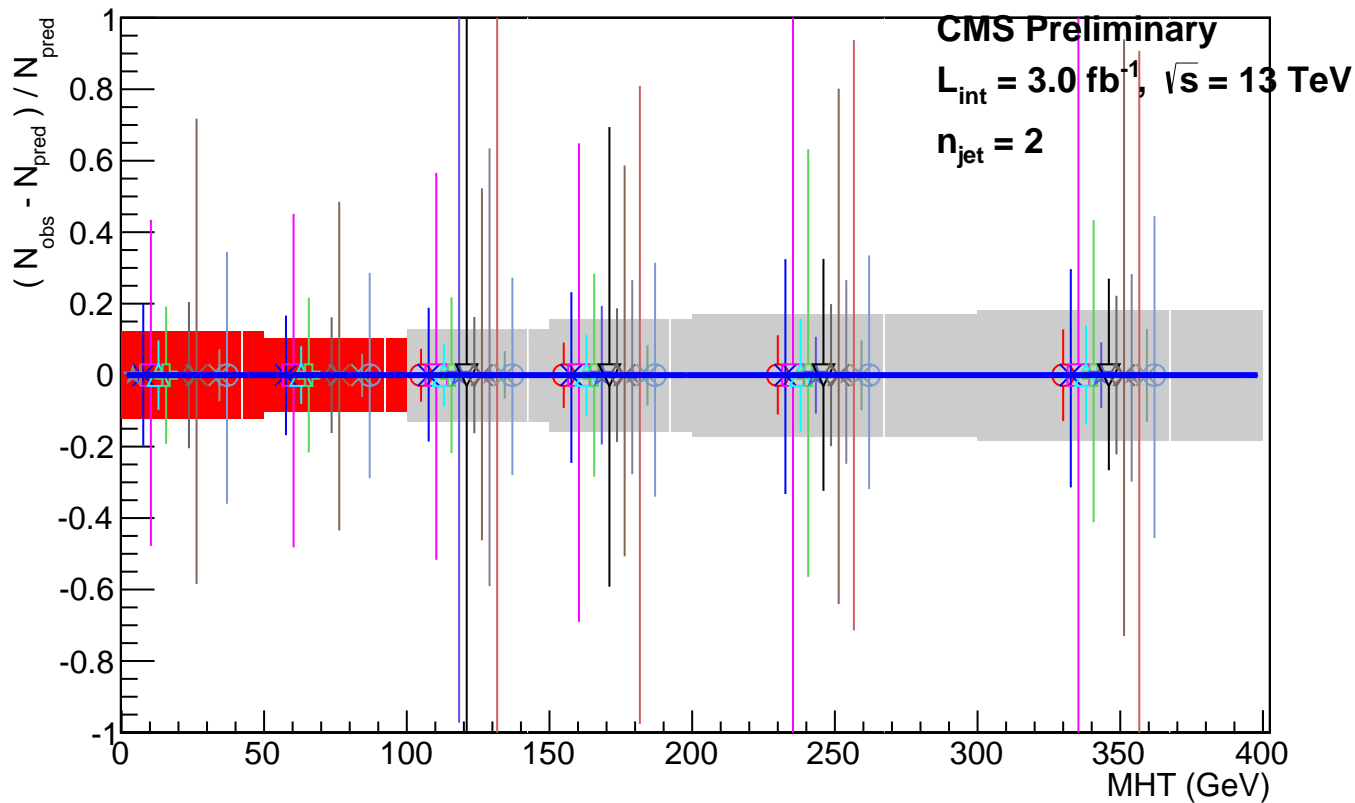
mht40_pt_nJet40_eq_2_ht40_ge_300.0_ht40_lt_350.0_0 eq2j



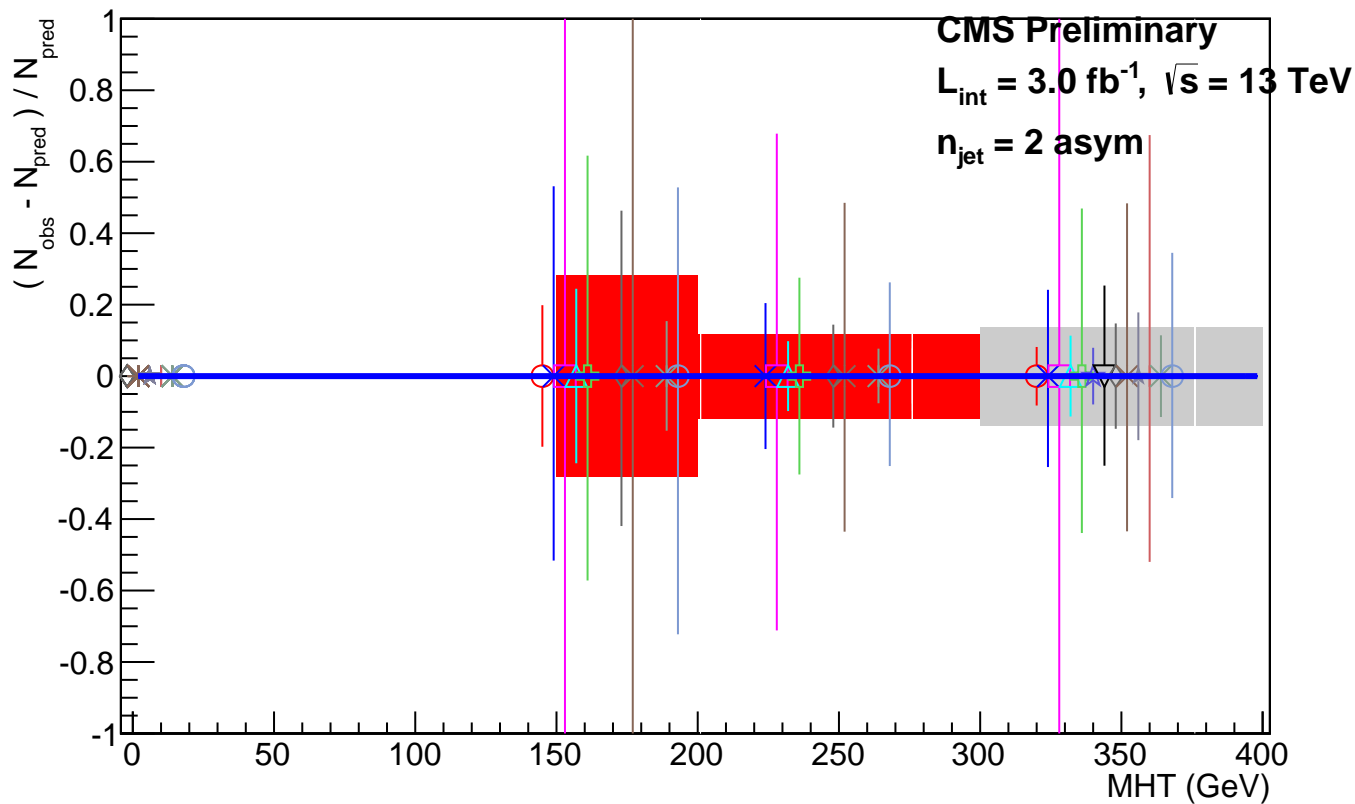
mht40_pt_nJet40_eq_2_ht40_ge_300.0_ht40_lt_350.0_Asym_0_eq2a



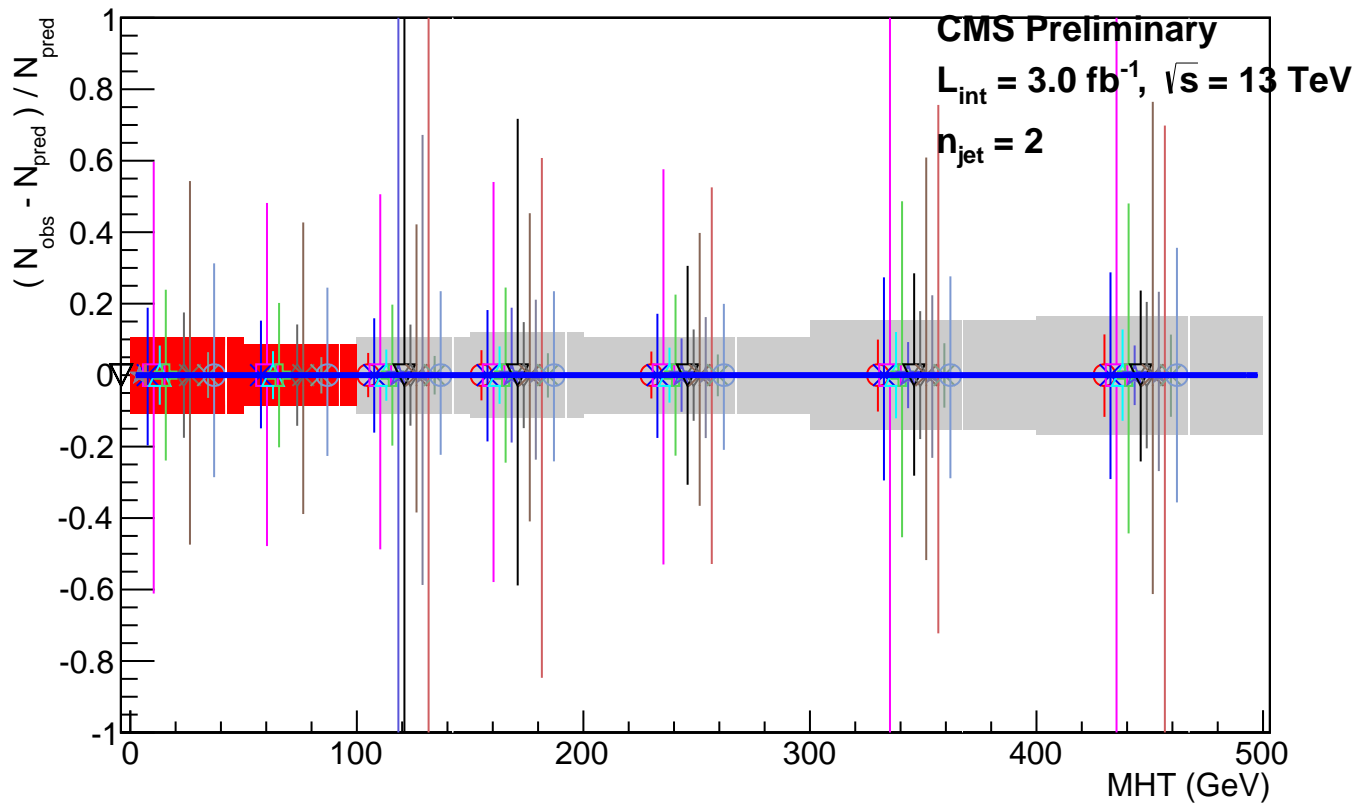
mht40_pt_nJet40_eq_2_ht40_ge_350.0_ht40_lt_400.0_0 eq2j



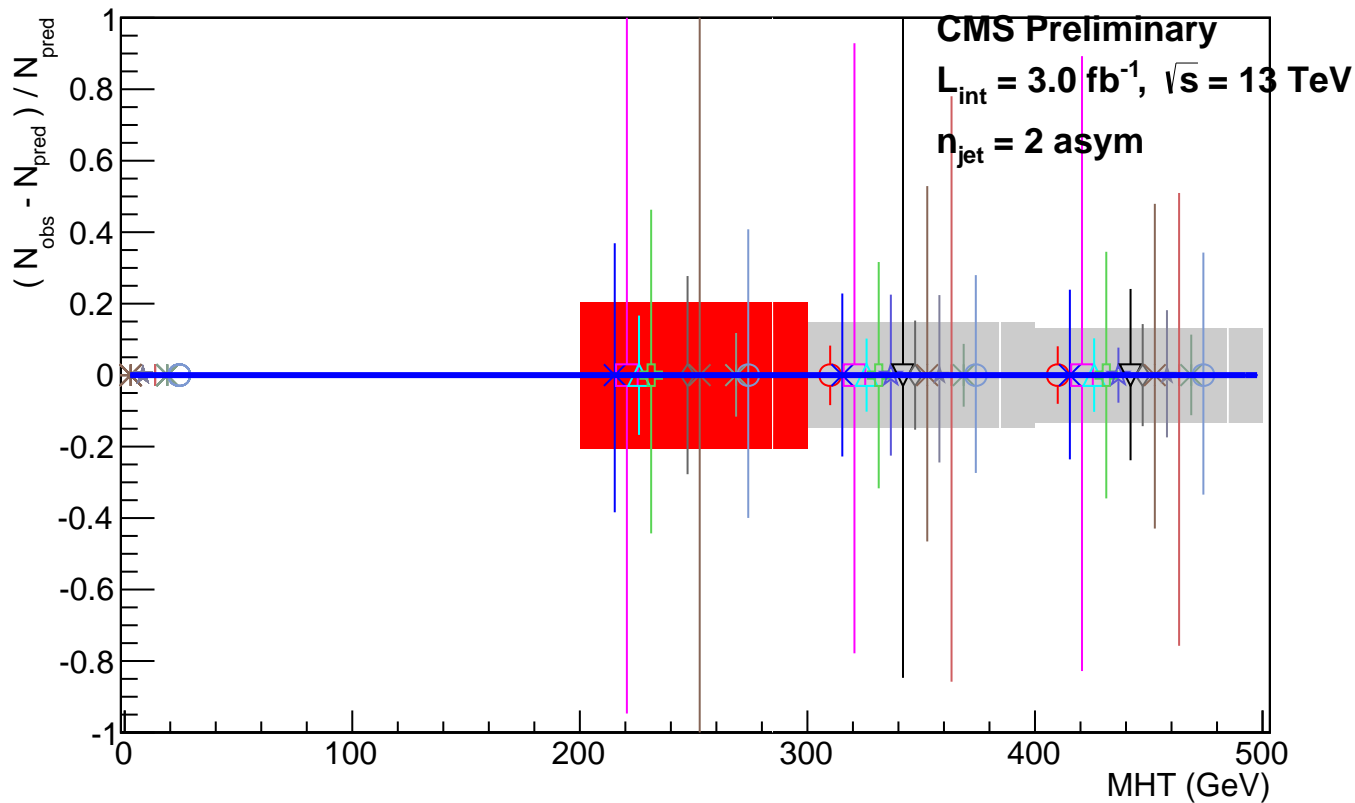
mht40_pt_nJet40_eq_2_ht40_ge_350.0_ht40_lt_400.0_Asym_0 eq2a



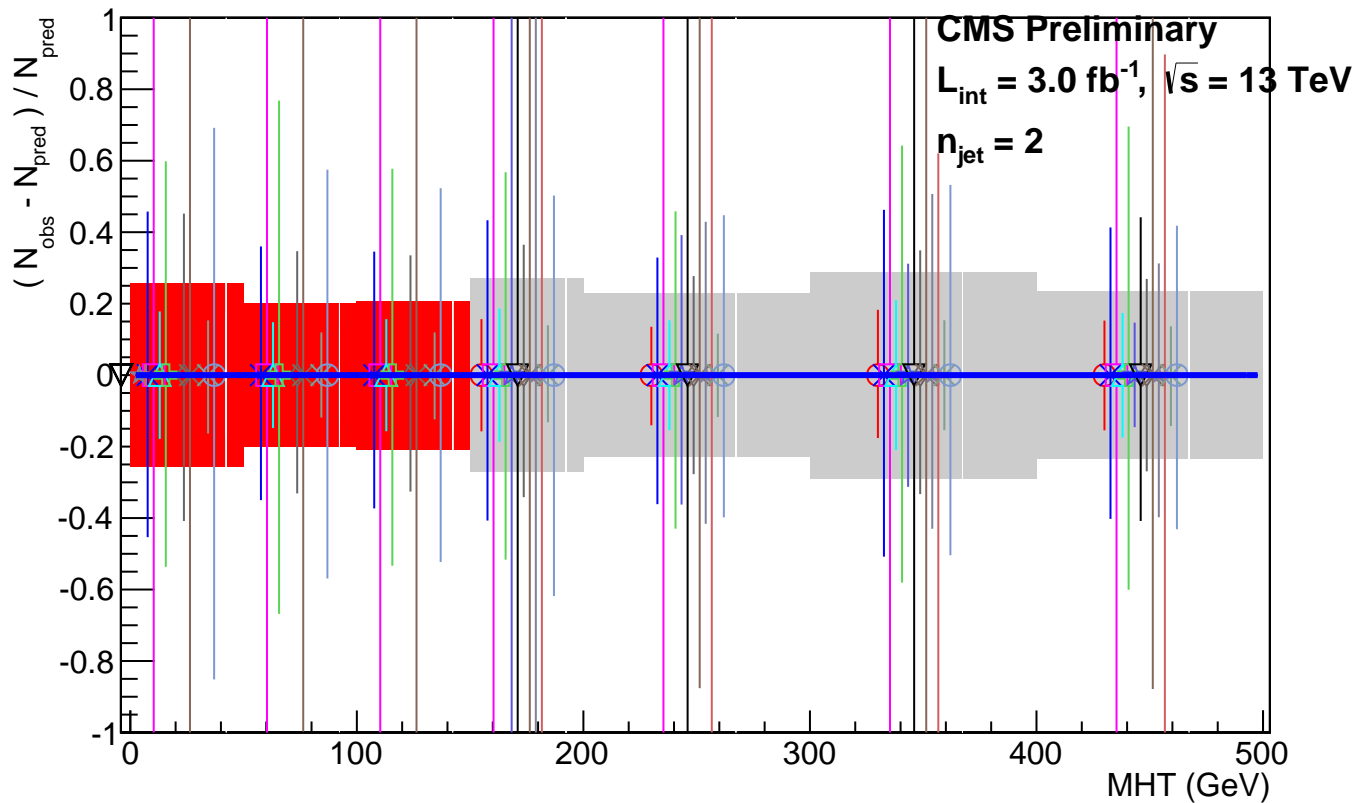
mht40_pt_nJet40_eq_2_ht40_ge_400.0_ht40_lt_600.0_0 eq2j



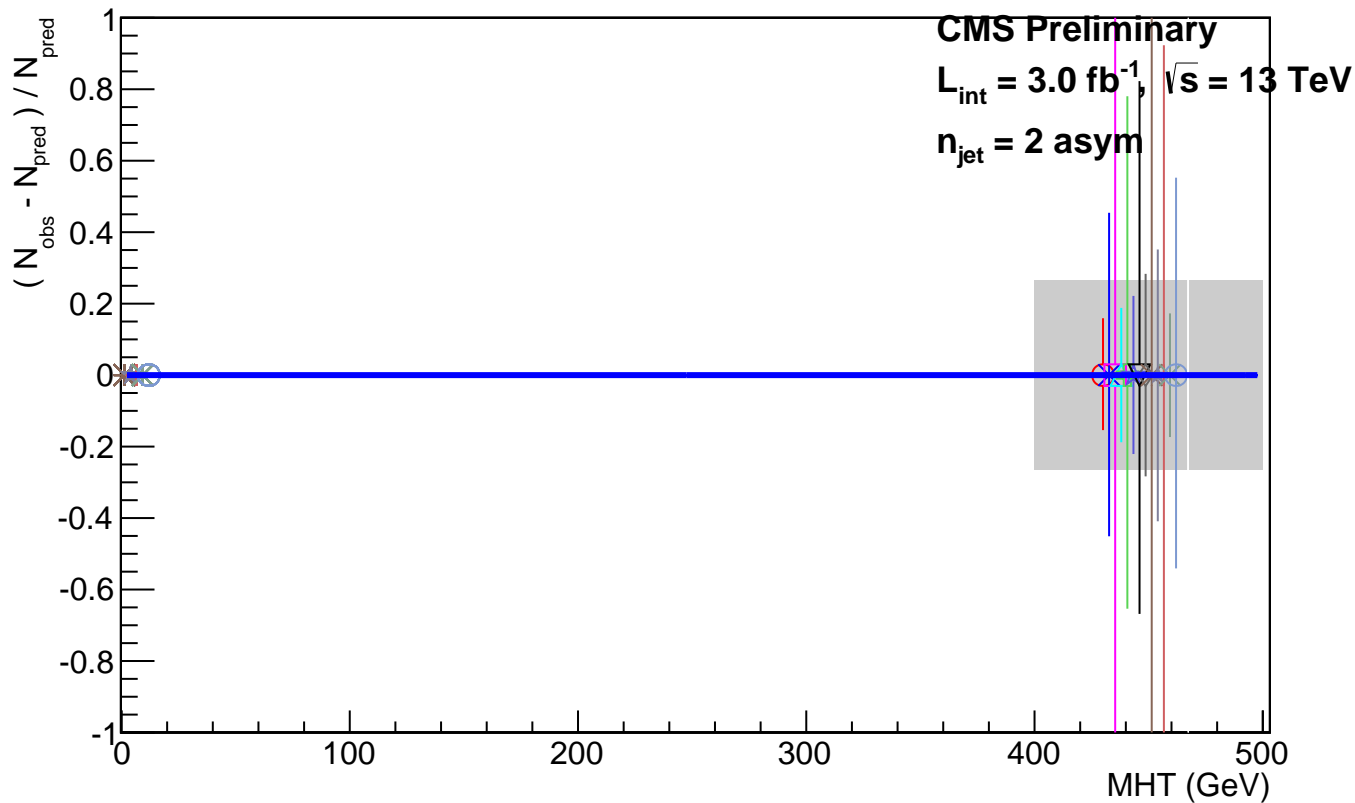
mht40_pt_nJet40_eq_2_ht40_ge_400.0_ht40_lt_600.0_Asym_0 eq2a



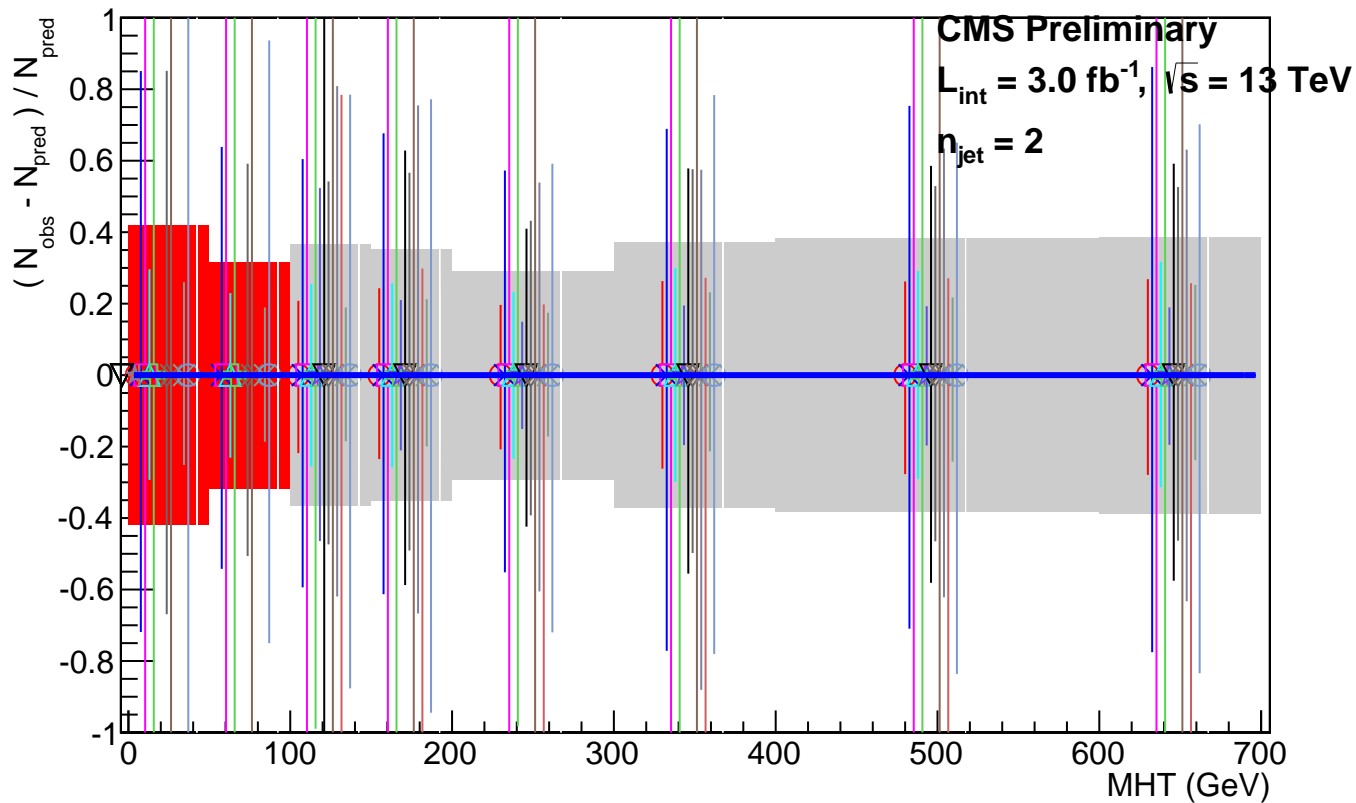
mht40_pt_nJet40_eq_2_ht40_ge_600.0_ht40_lt_800.0_0_eq2j



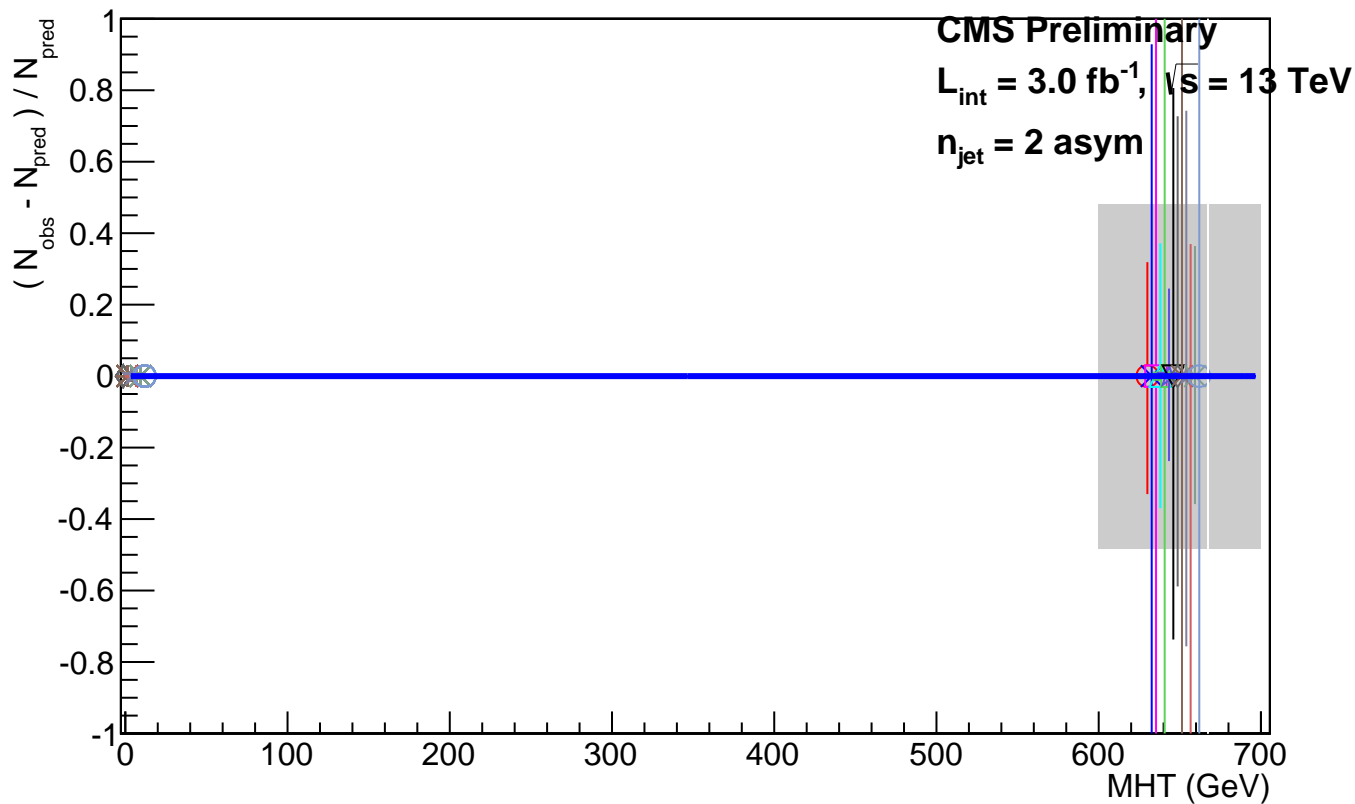
mht40_pt_nJet40_eq_2_ht40_ge_600.0_ht40_lt_800.0_Asym_0 eq2a

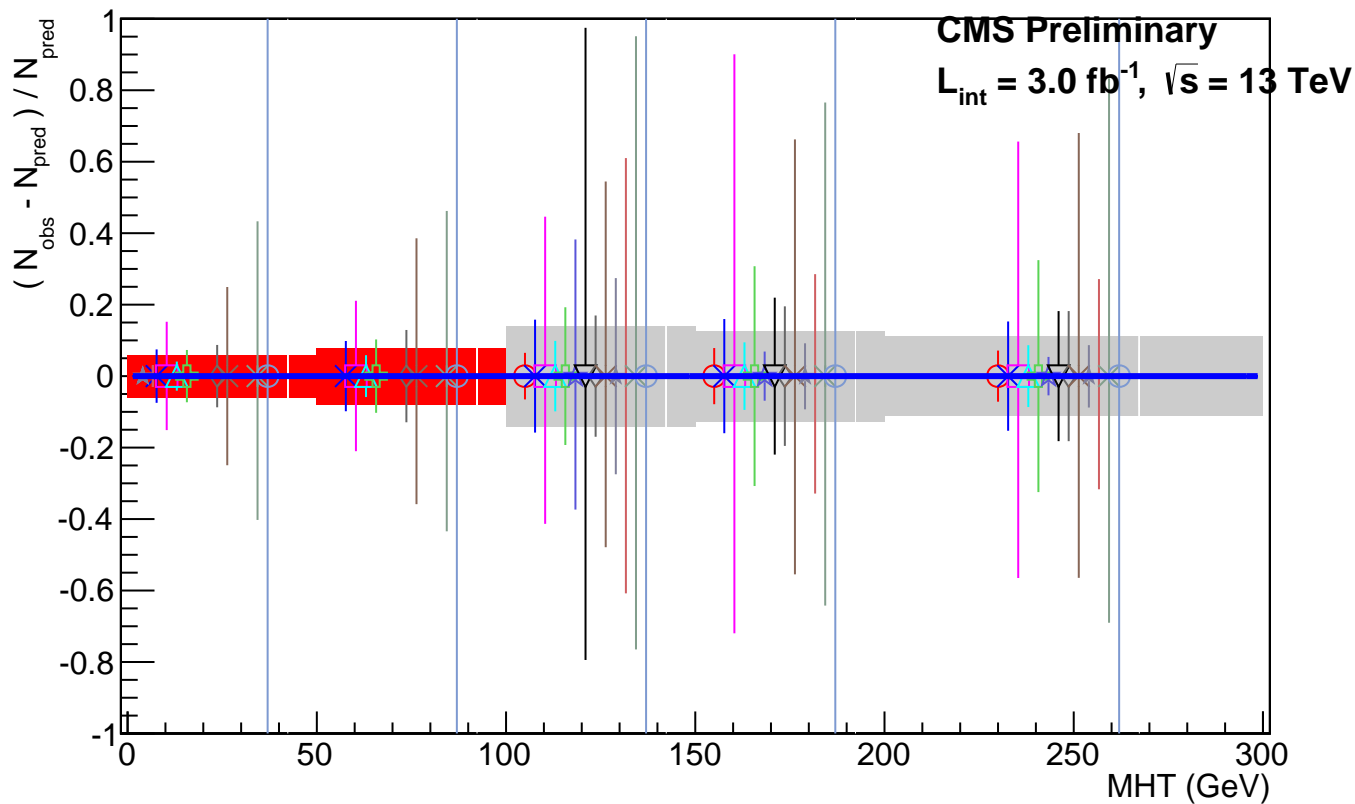


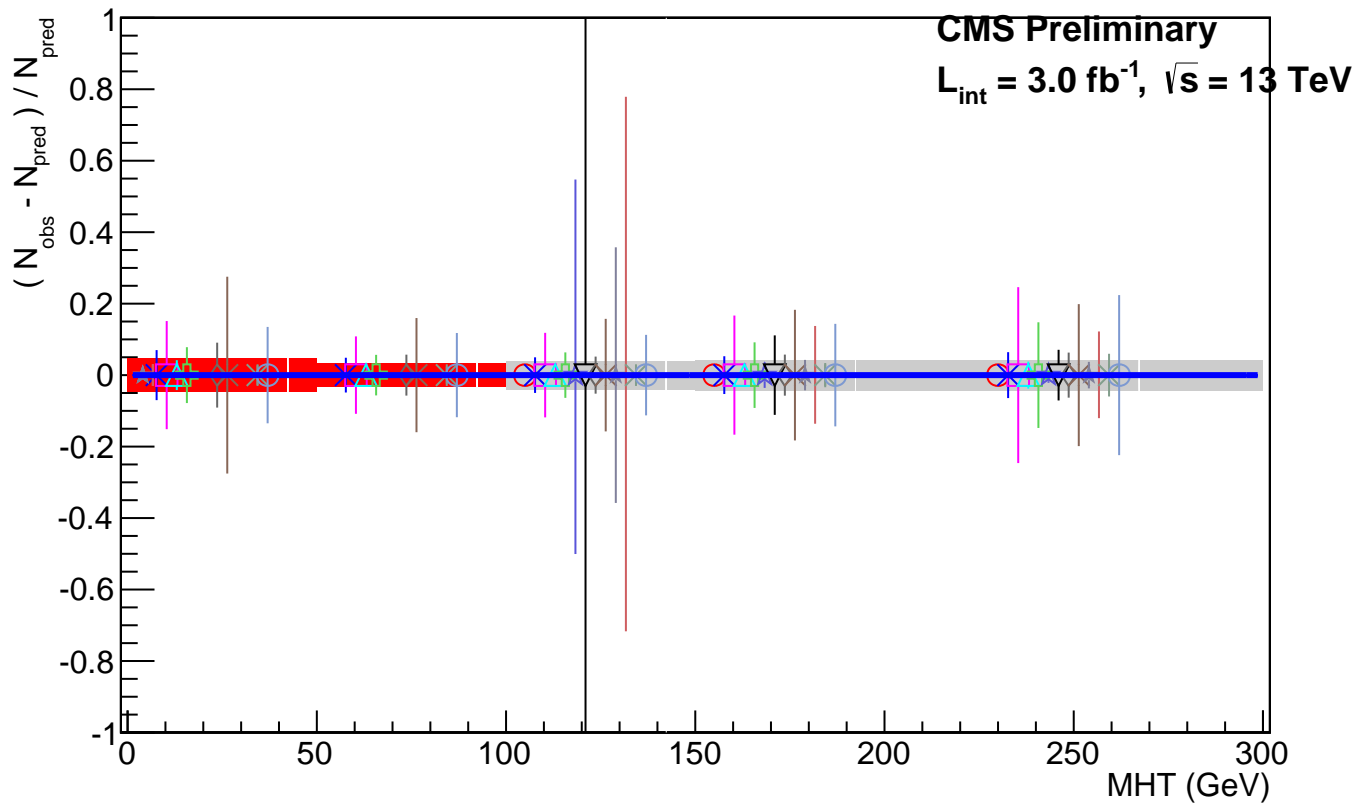
mht40_pt_nJet40_eq_2_ht40_ge_800.0_ht40_lt_99999.0_0 eq2j

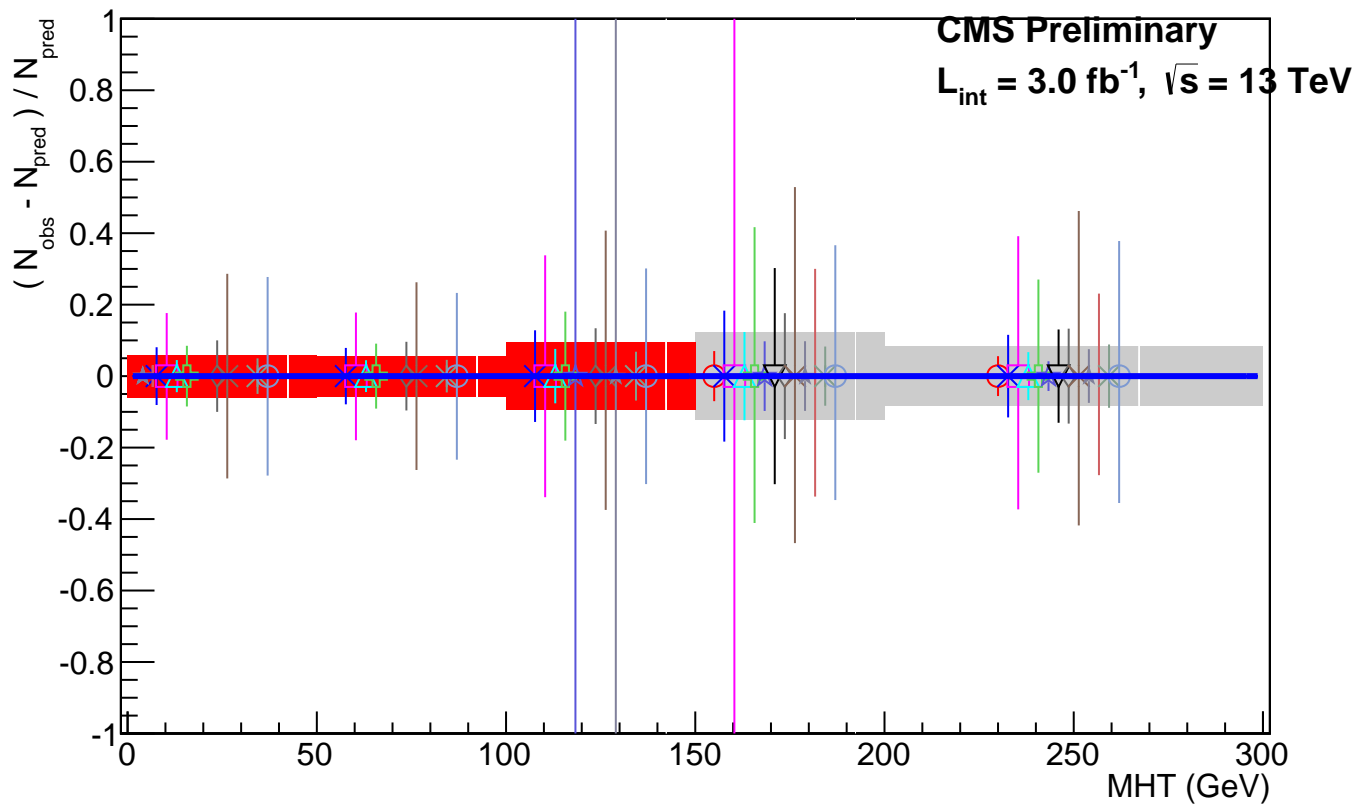


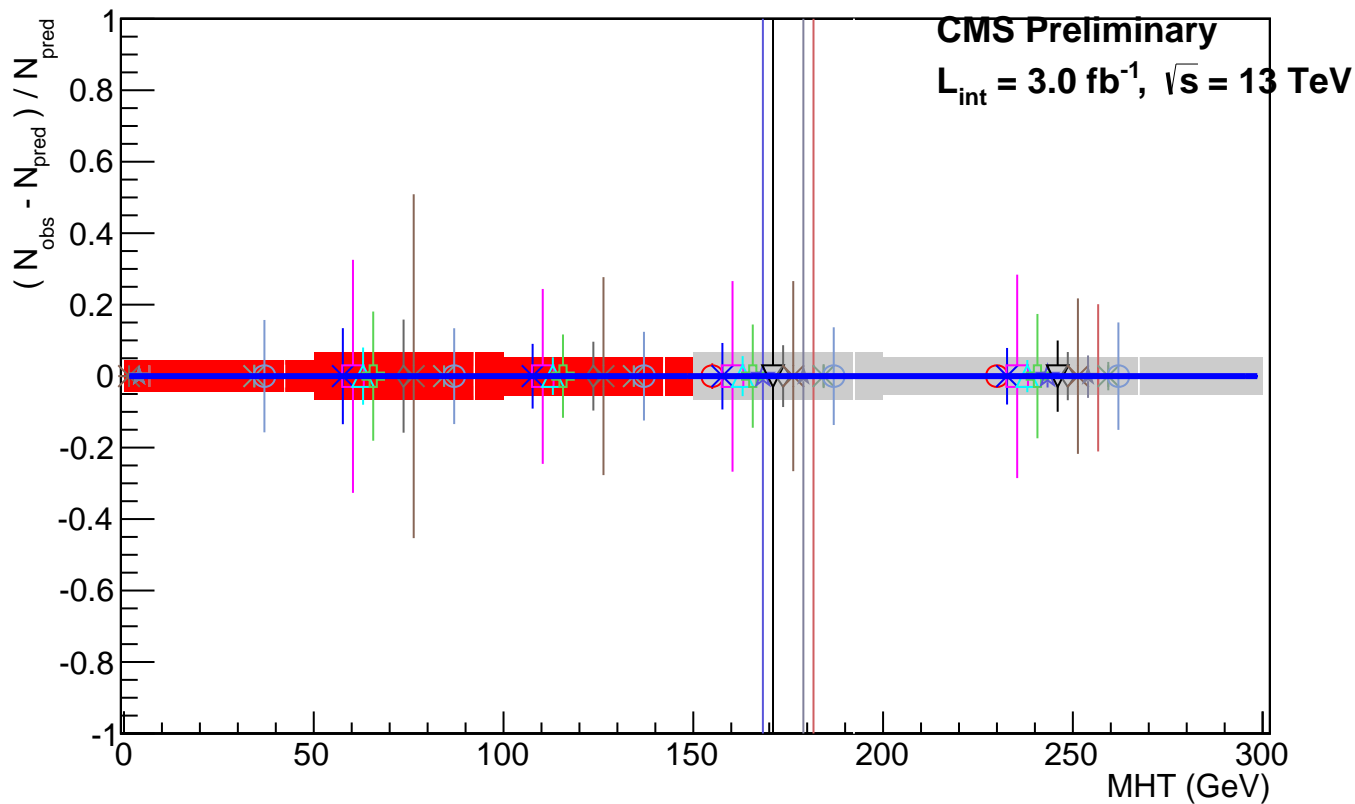
mht40_pt_nJet40_eq_2_ht40_ge_800.0_ht40_lt_99999.0_Asym_0 eq2a



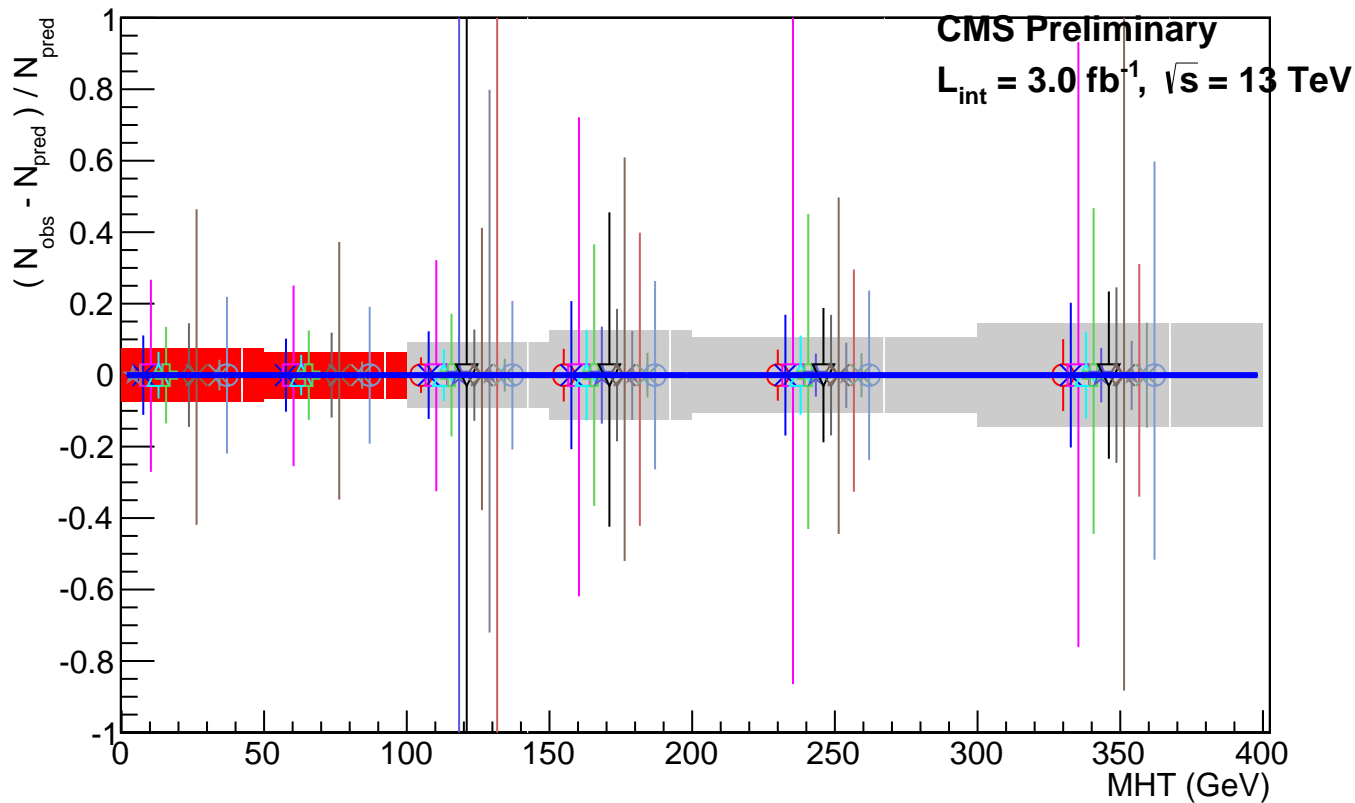


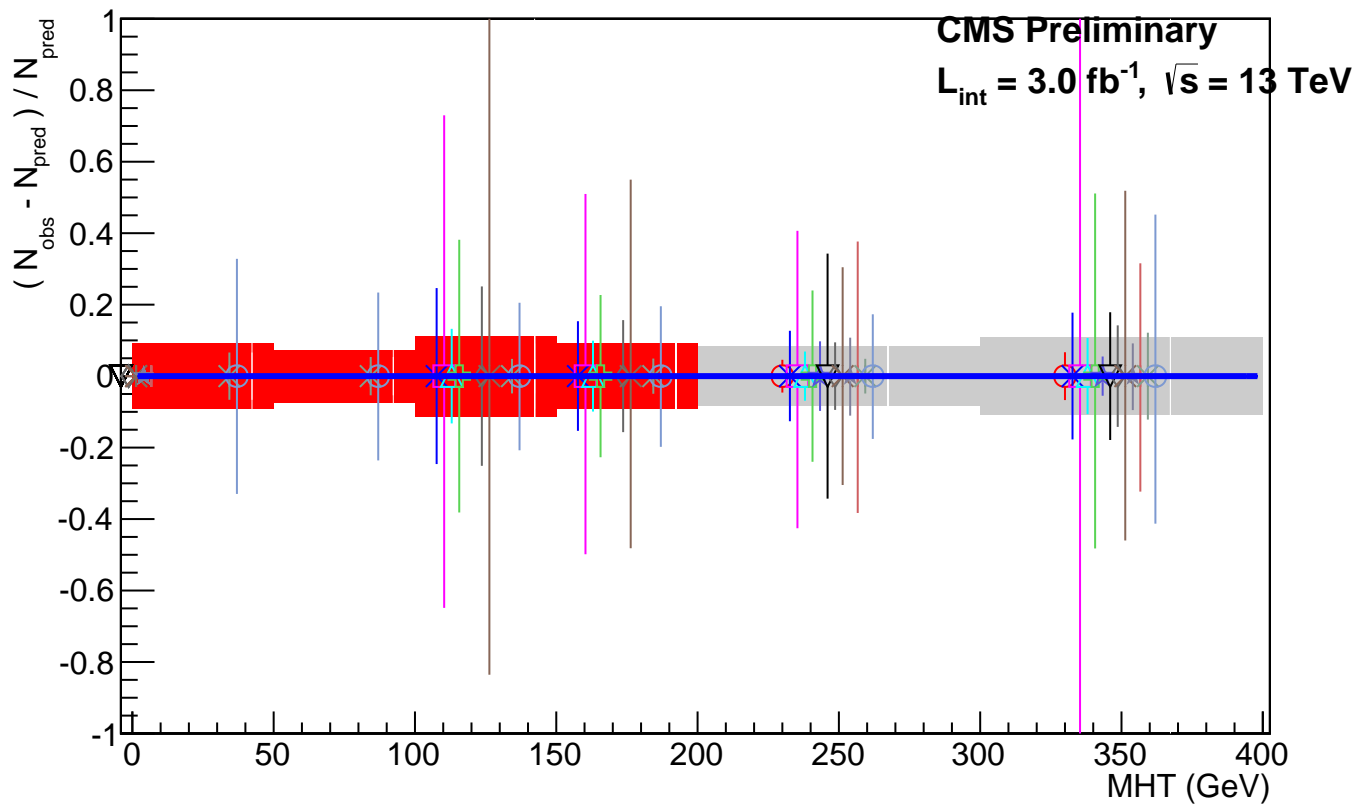




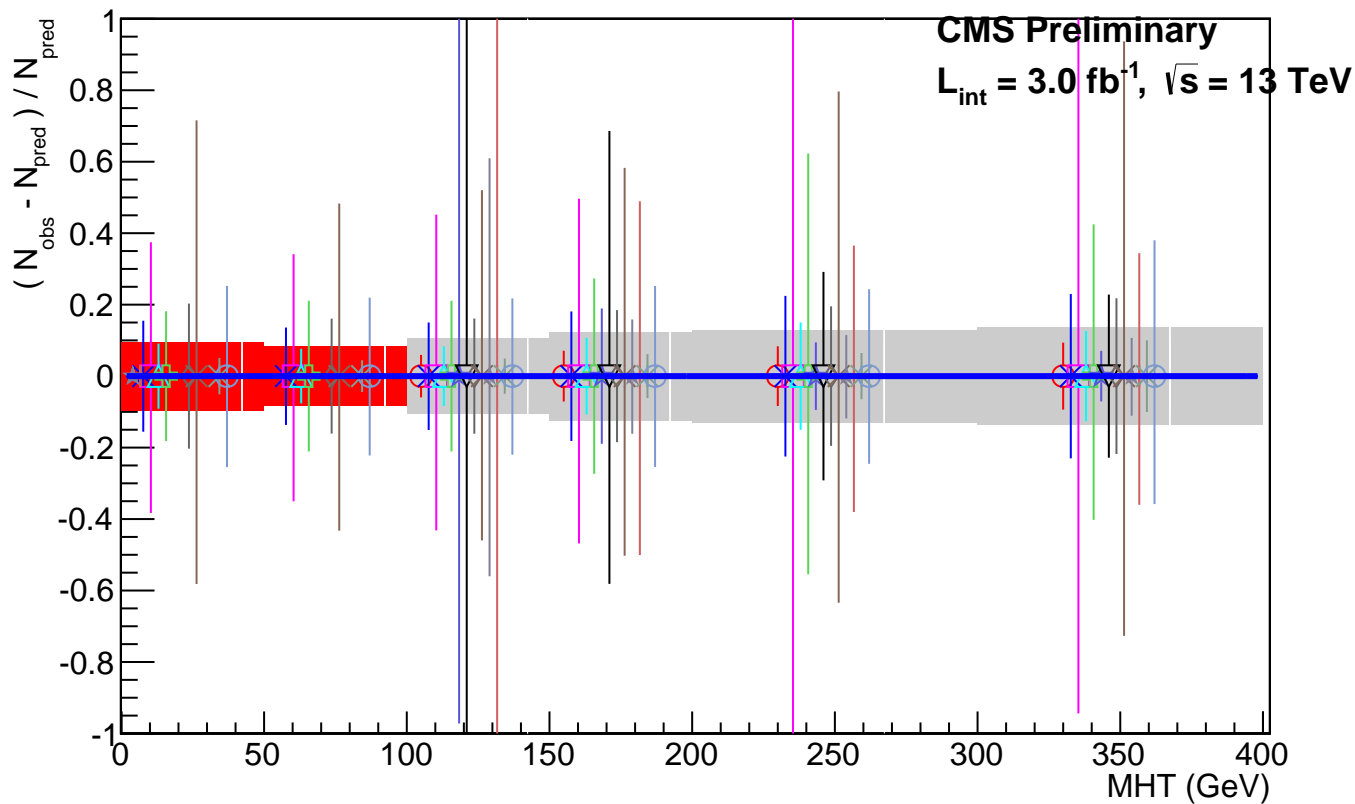


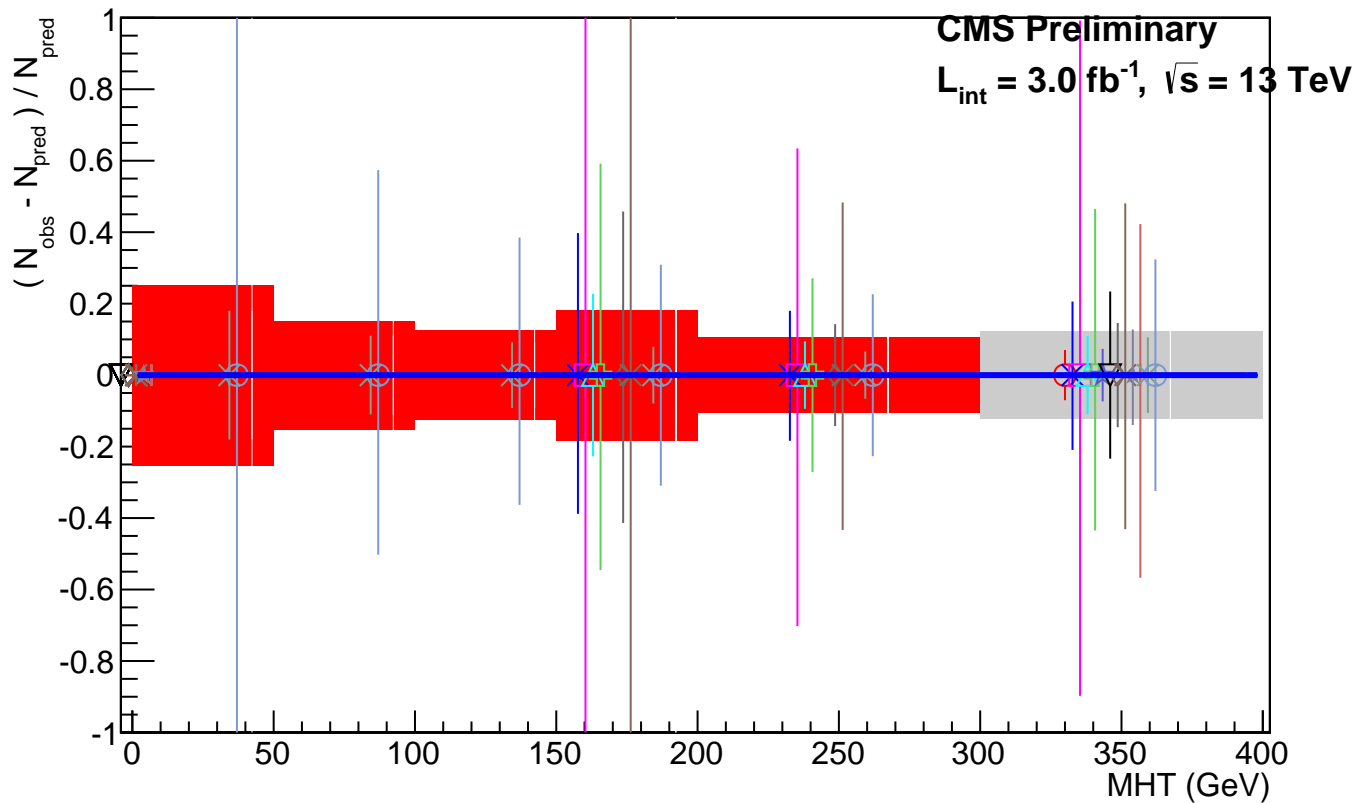
mht40_pt_nJet40_eq_2_ht40_ge_300.0_ht40_lt_350.0_0_Integrated eq2j_Integrated

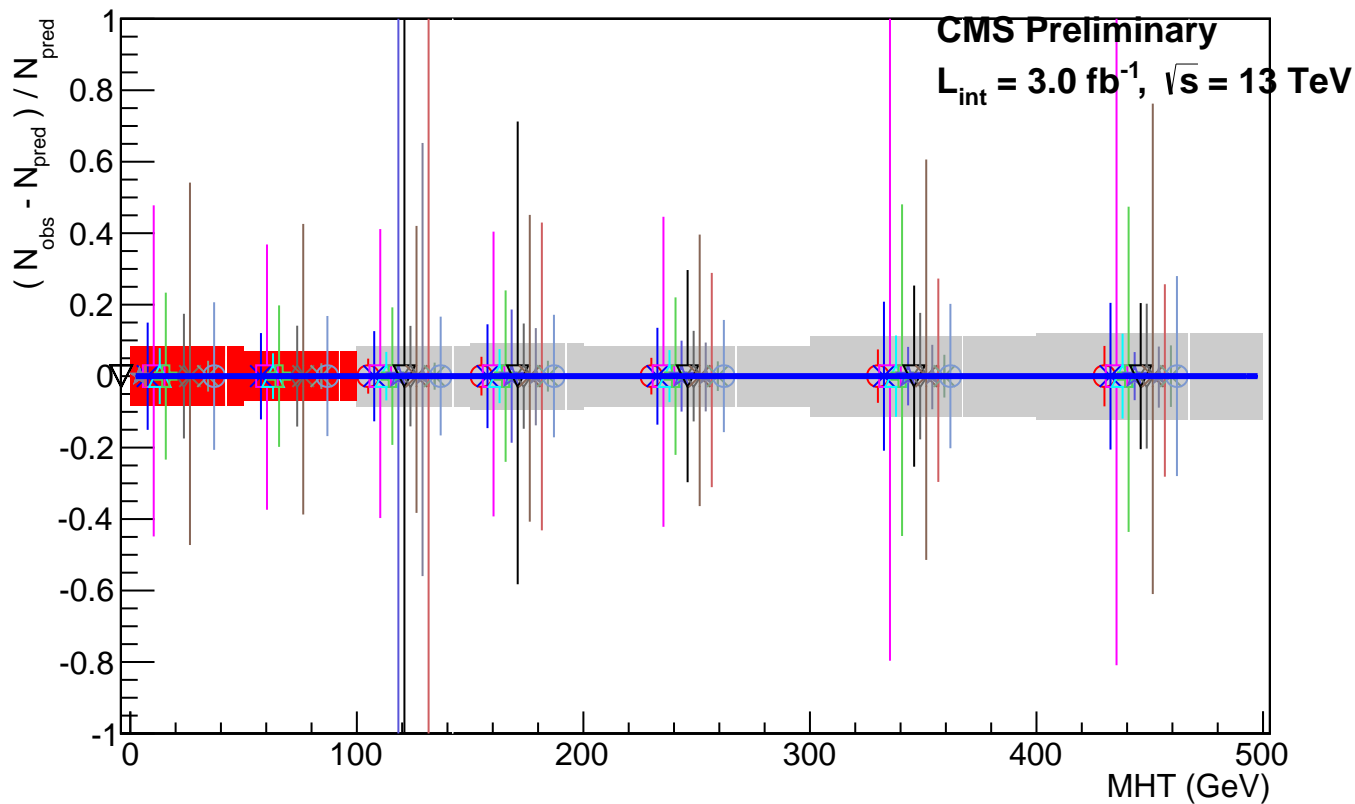


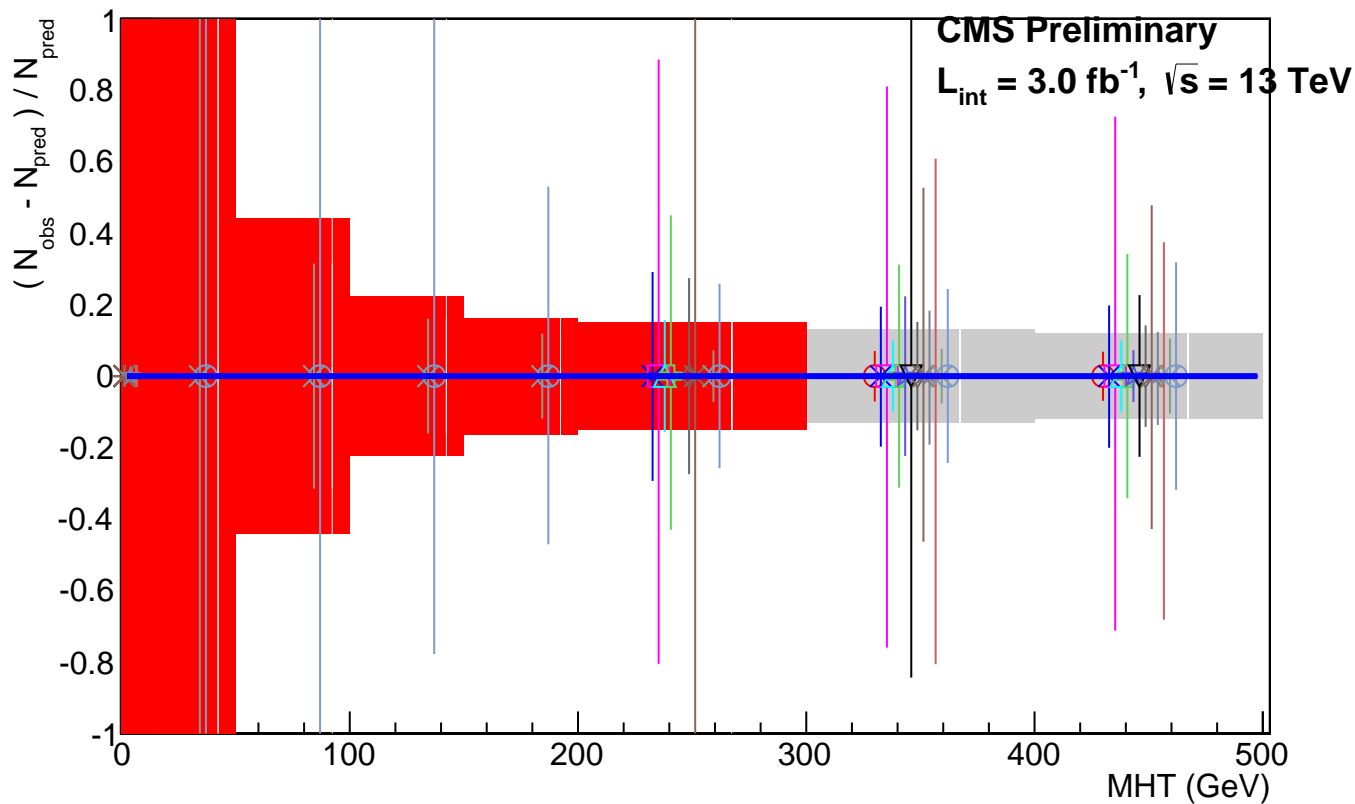


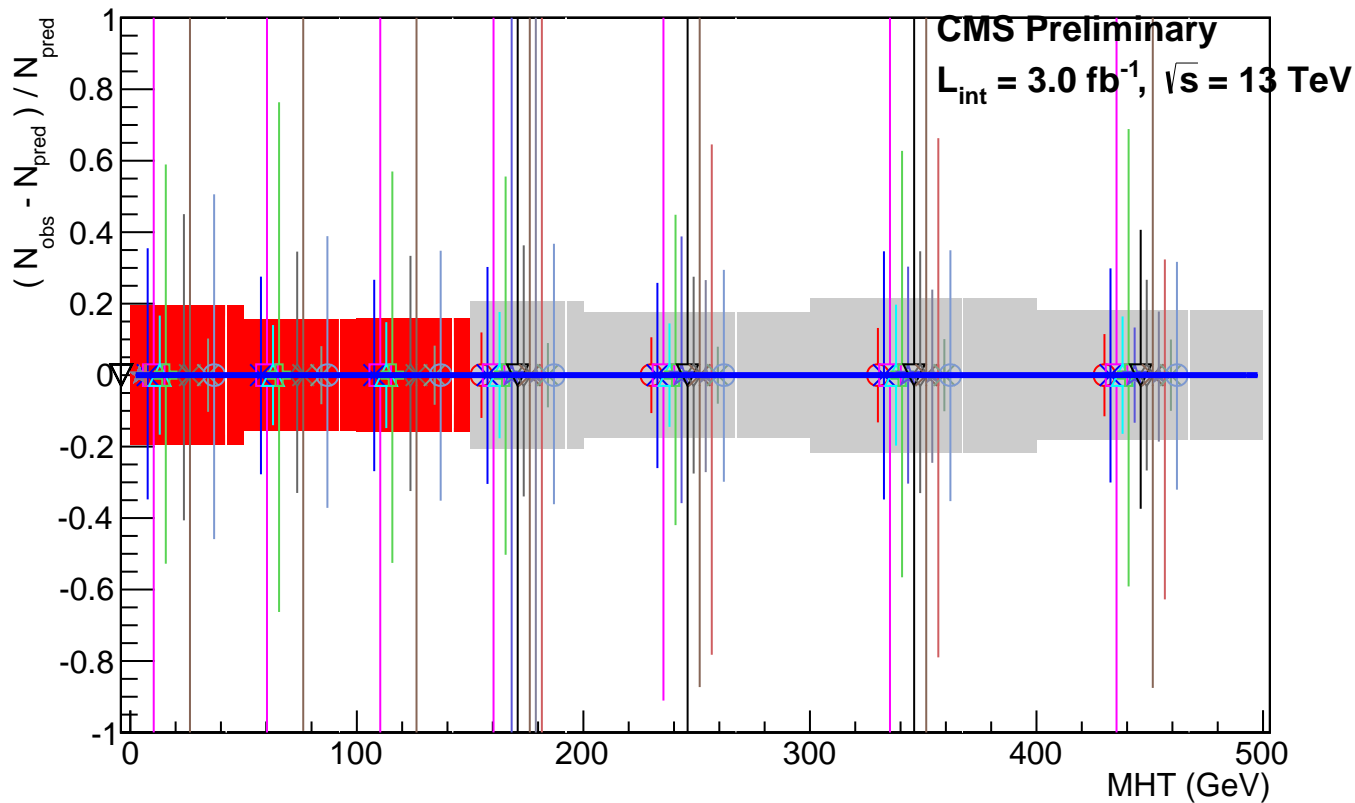
mht40_pt_nJet40_eq_2_ht40_ge_350.0_ht40_lt_400.0_0_Integrated eq2j_Integrated

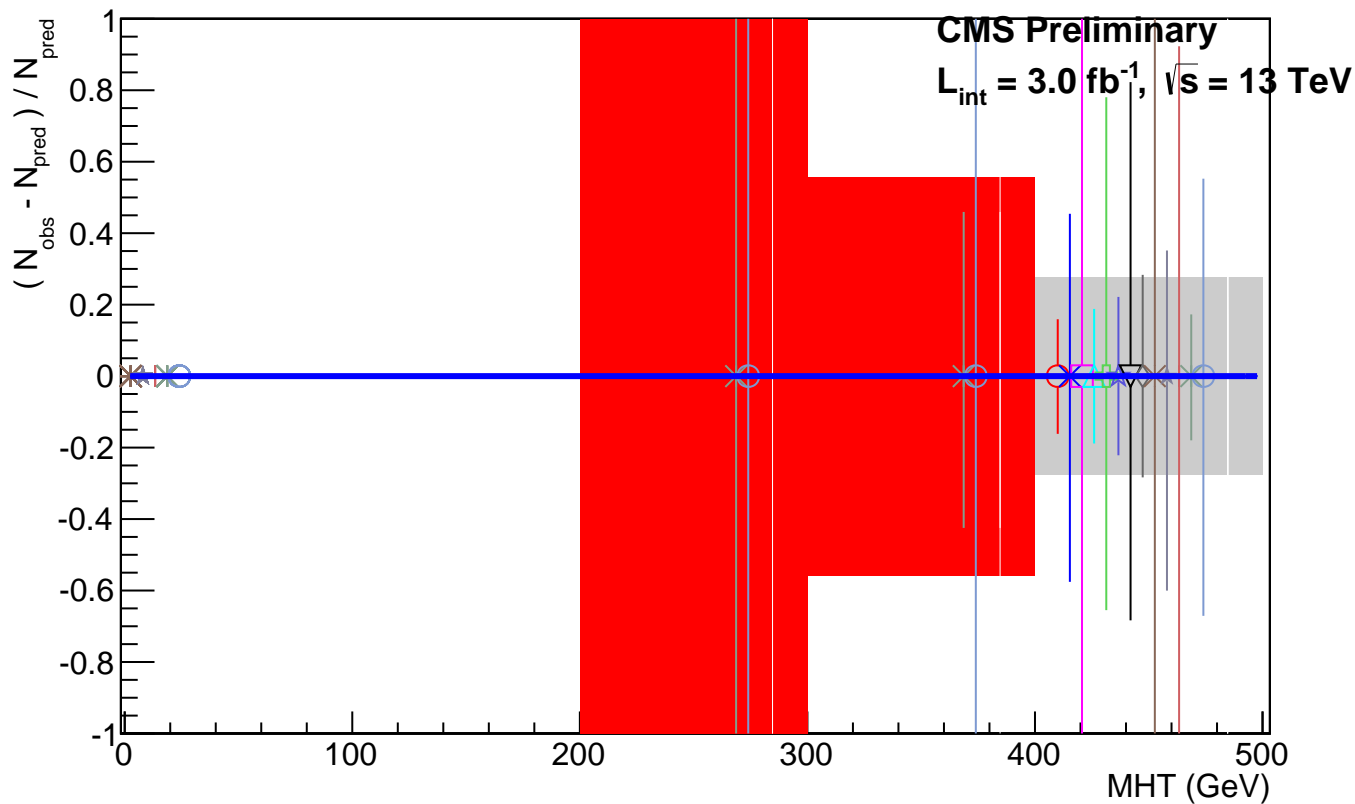


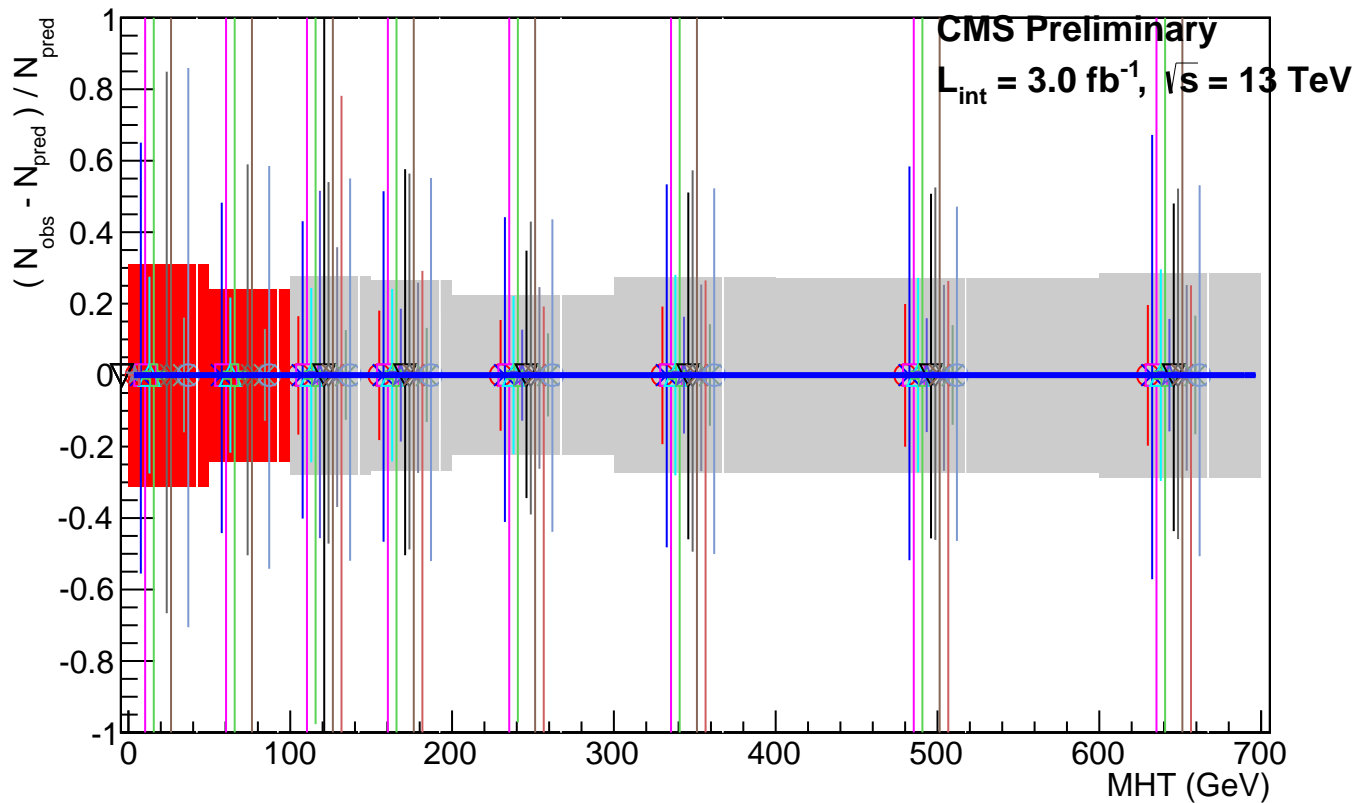


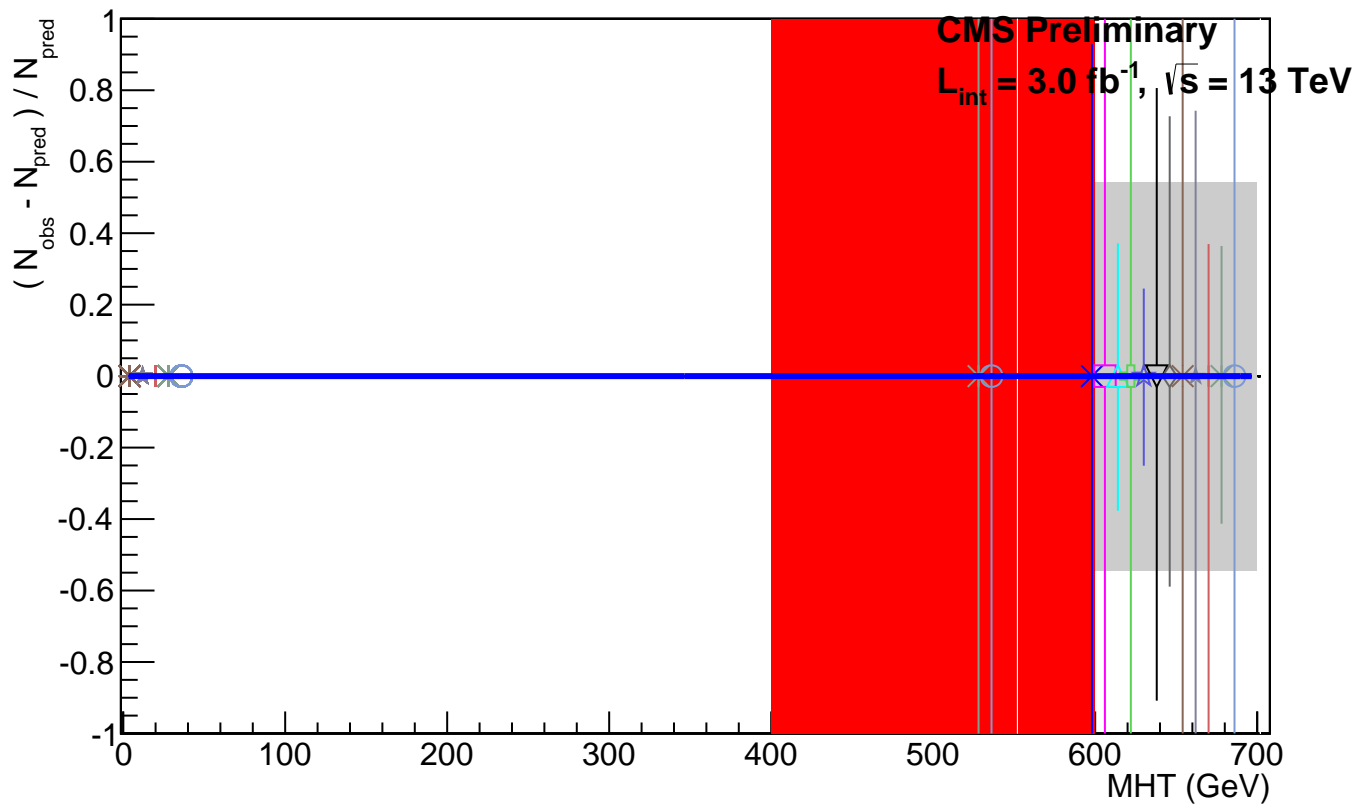




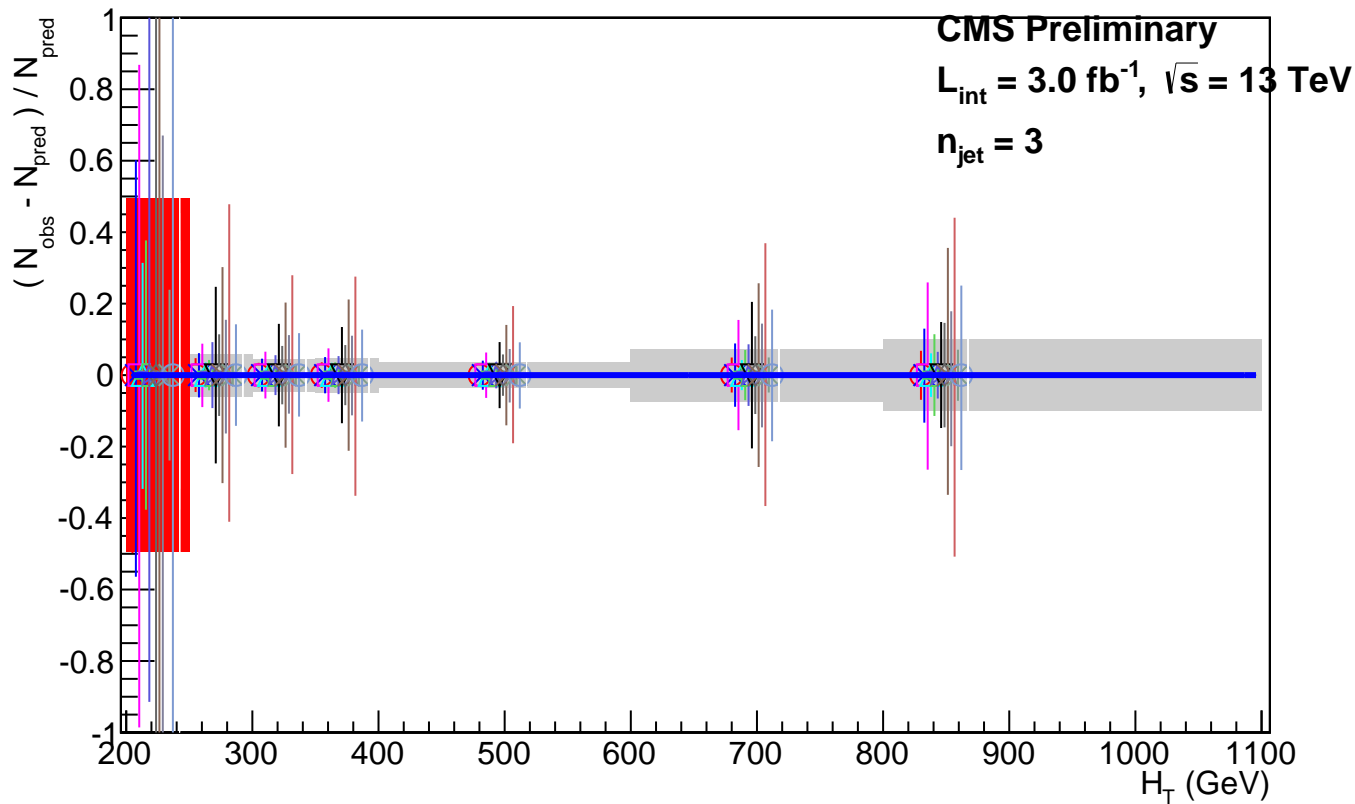




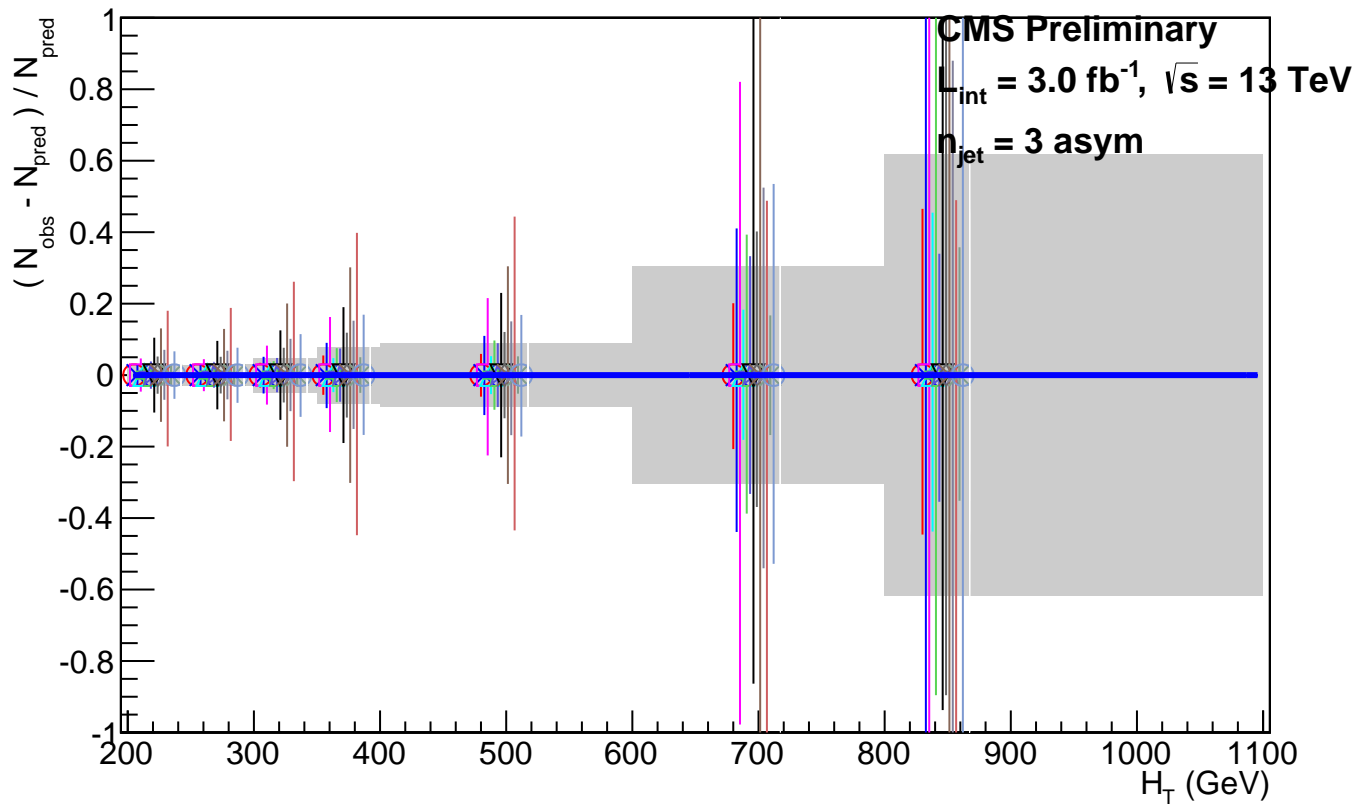




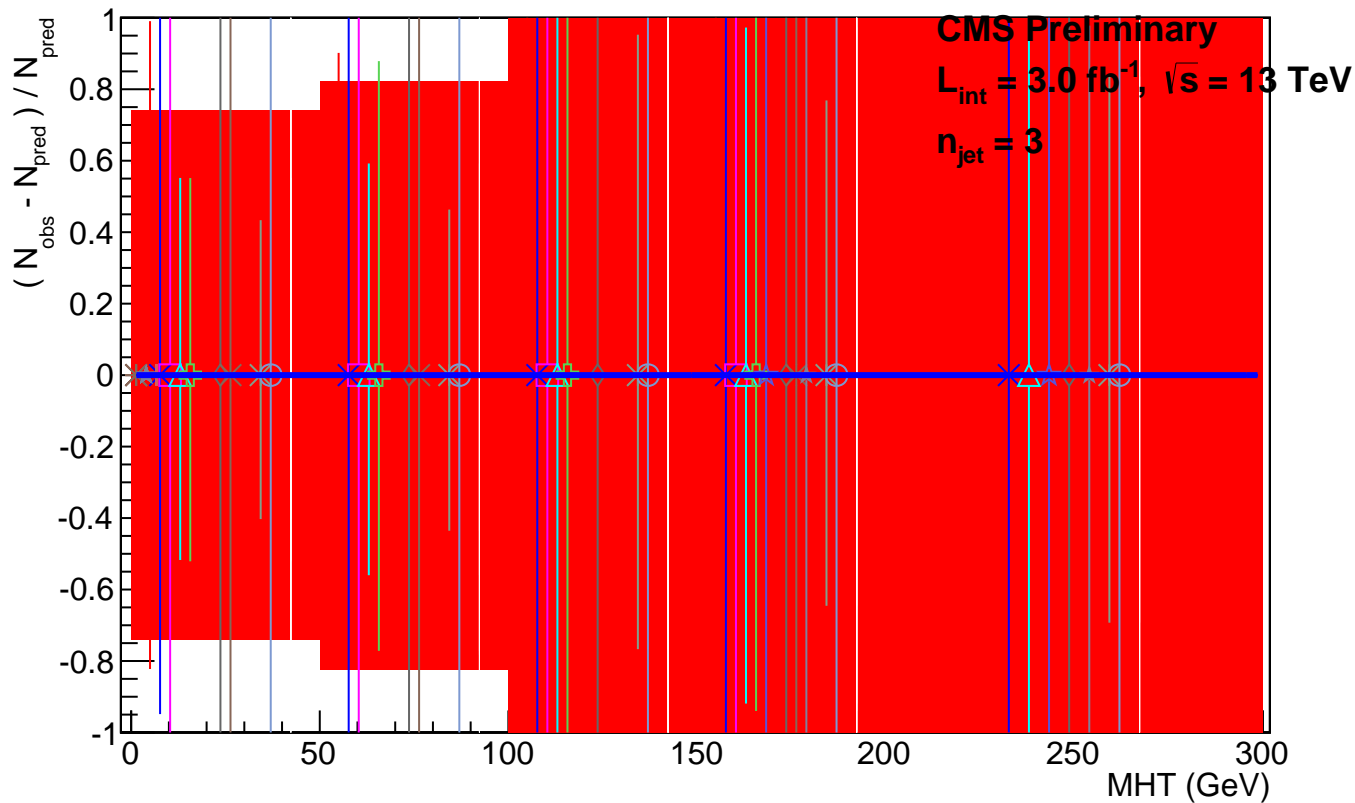
ht40_nJet40_eq_3_0 eq3j



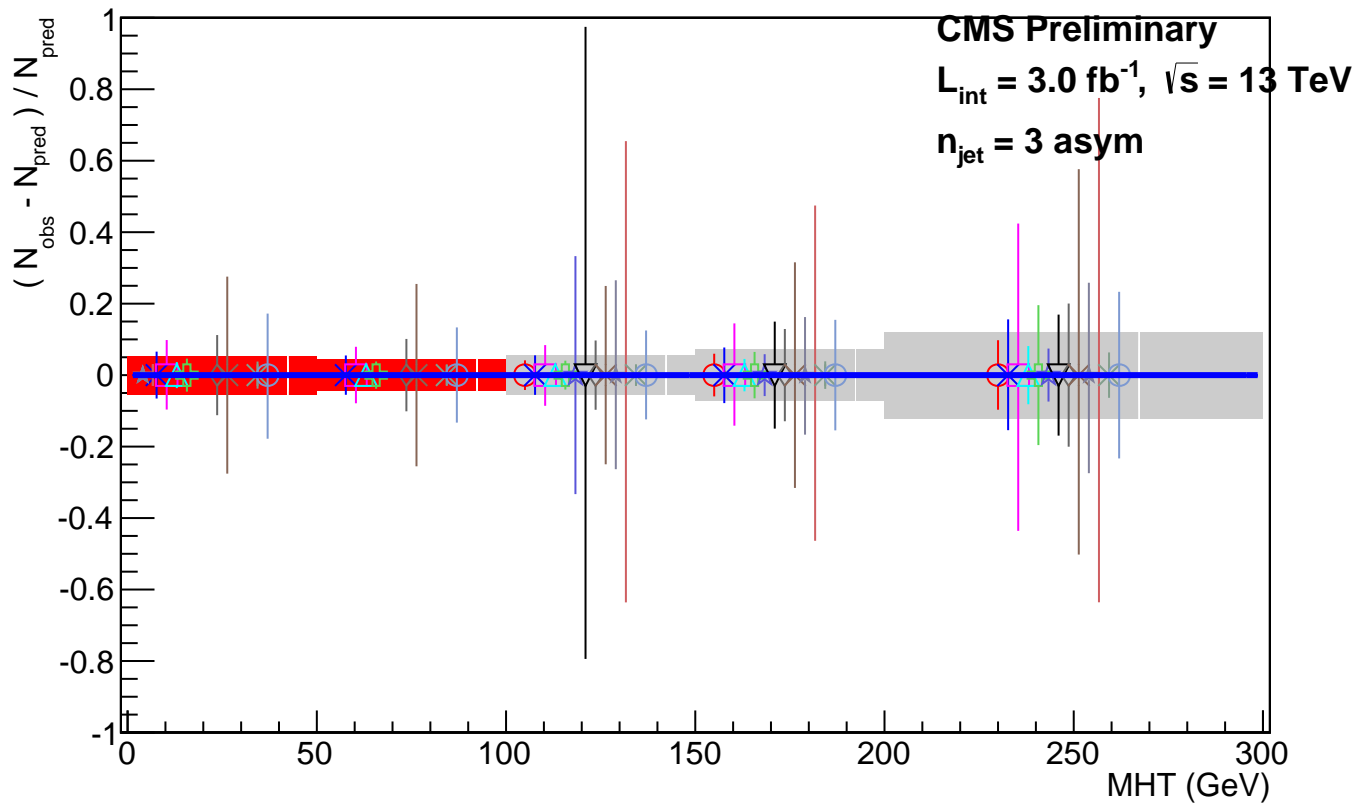
ht40_nJet40_eq_3_Asym_0 eq3a



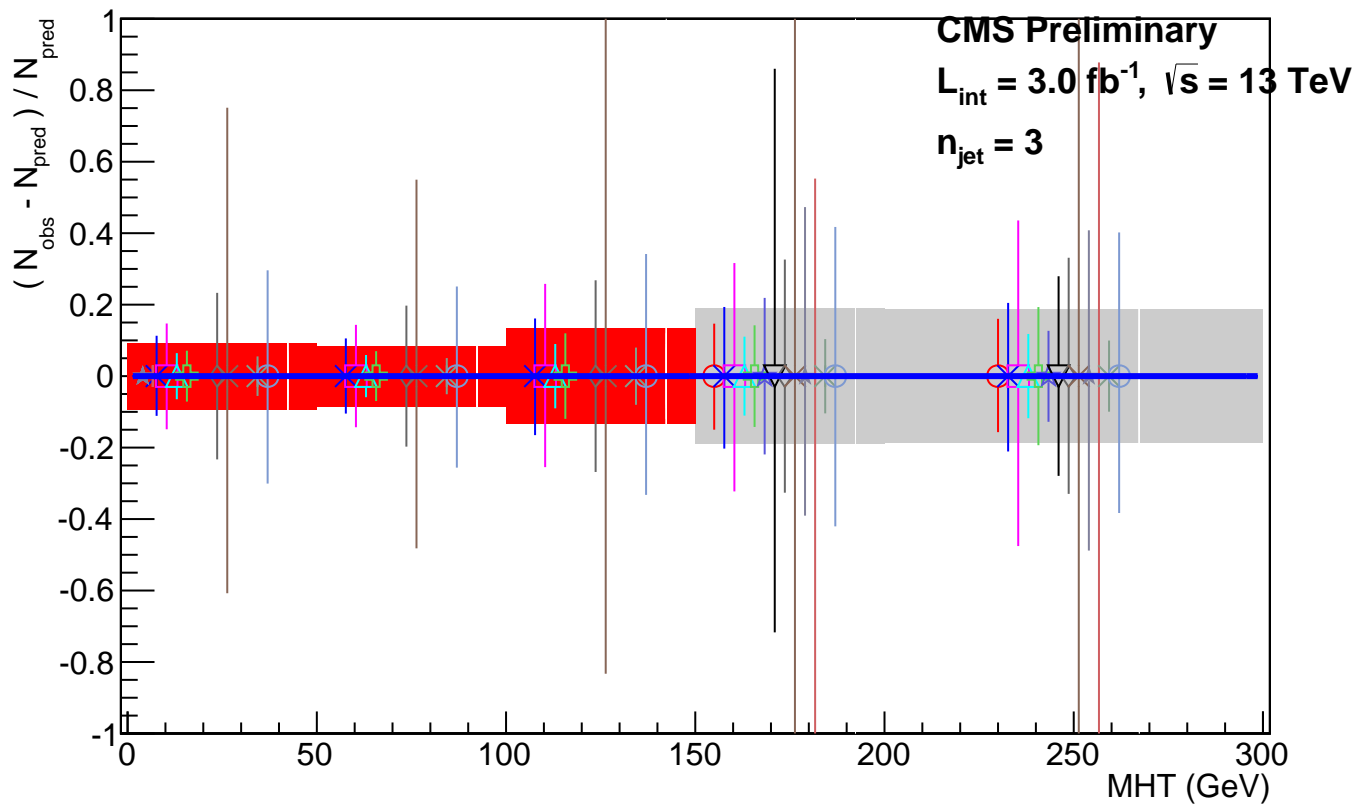
mht40_pt_nJet40_eq_3_ht40_ge_200.0_ht40_lt_250.0_0 eq3j



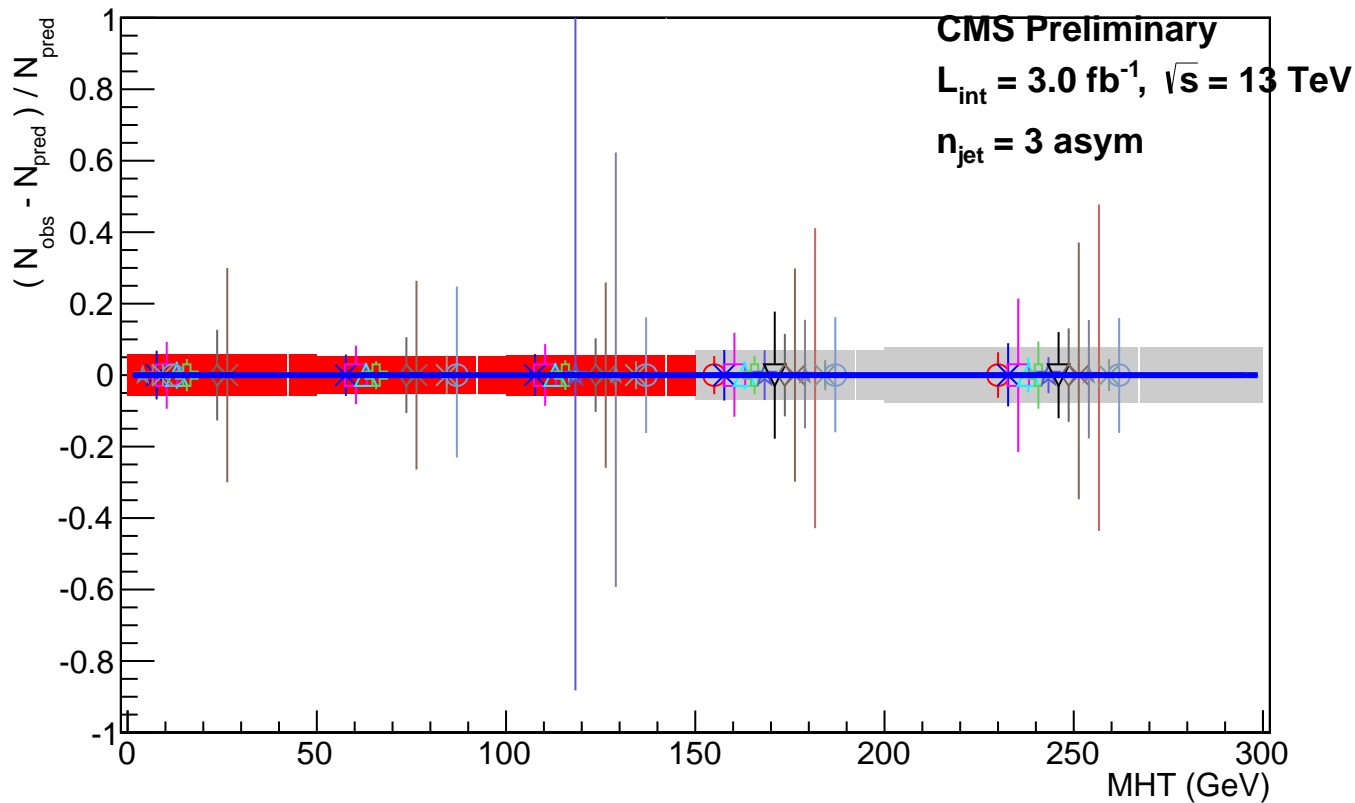
mht40_pt_nJet40_eq_3_ht40_ge_200.0_ht40_lt_250.0_Asym_0 eq3a



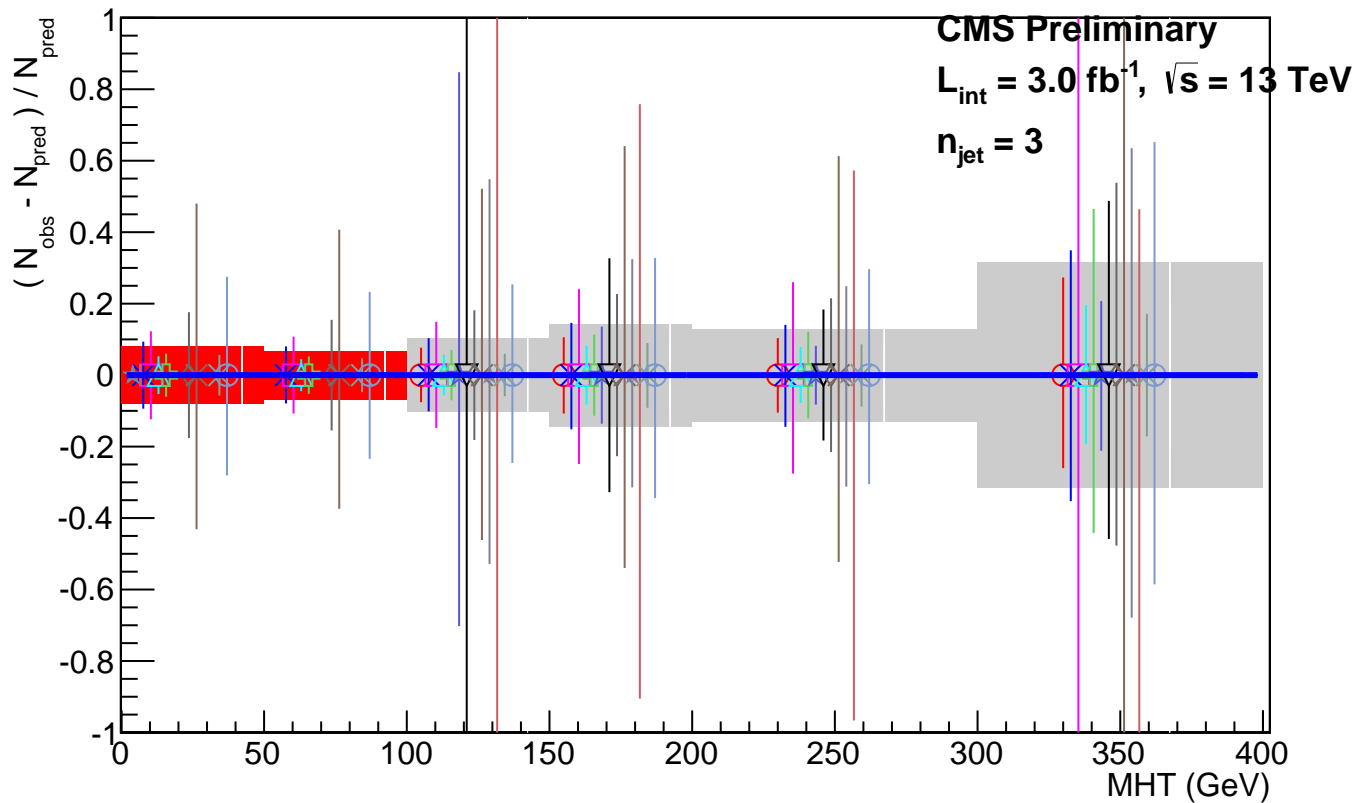
mht40_pt_nJet40_eq_3_ht40_ge_250.0_ht40_lt_300.0_0 eq3j



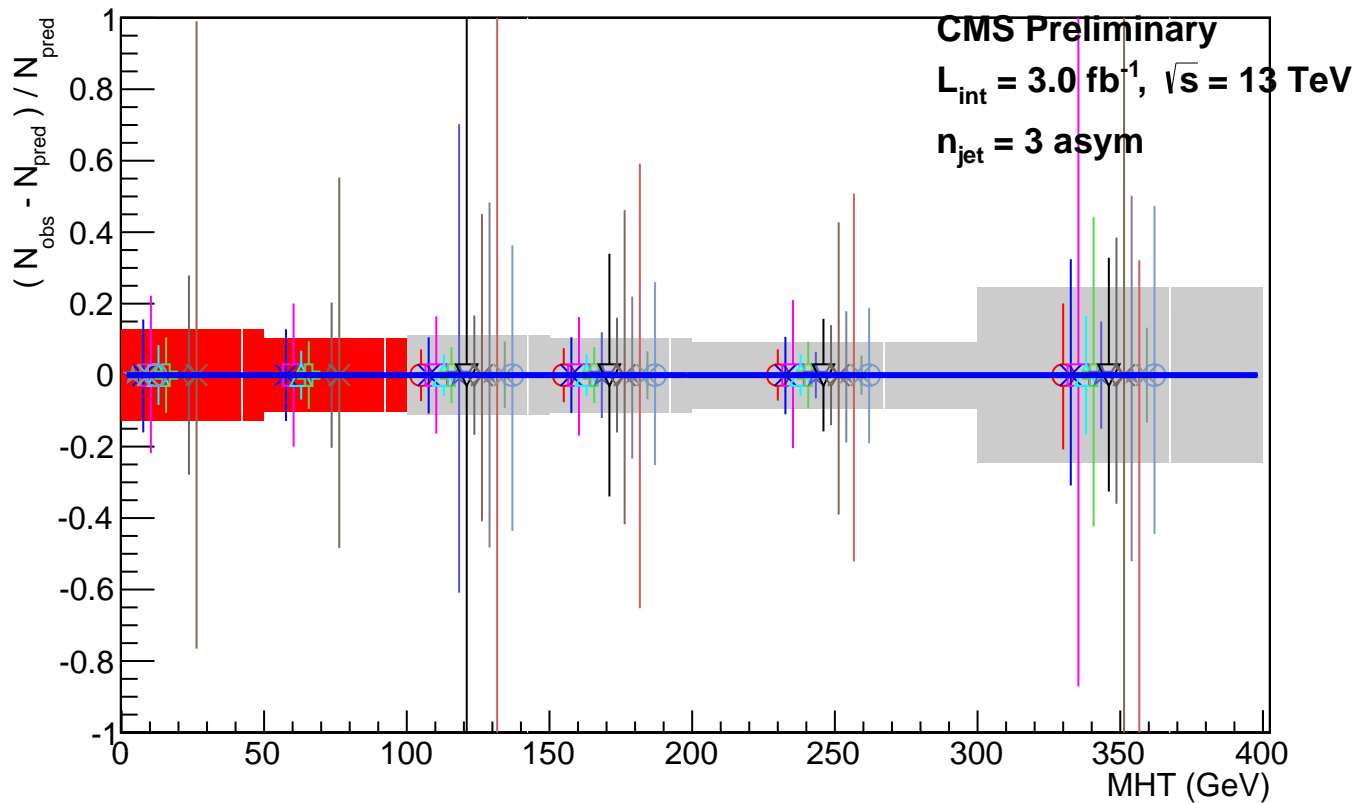
mht40_pt_nJet40_eq_3_ht40_ge_250.0_ht40_lt_300.0_Asym_0 eq3a



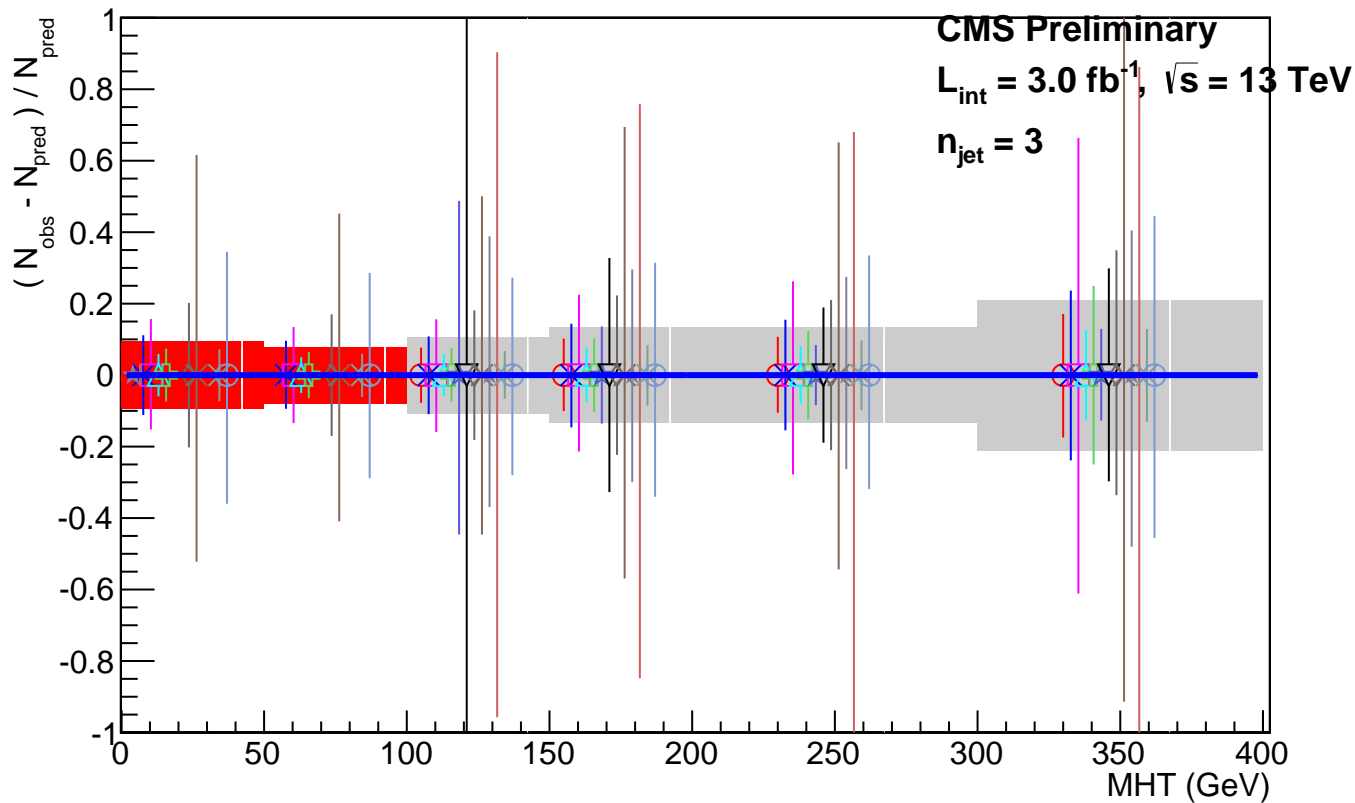
mht40_pt_nJet40_eq_3_ht40_ge_300.0_ht40_lt_350.0_0 eq3j



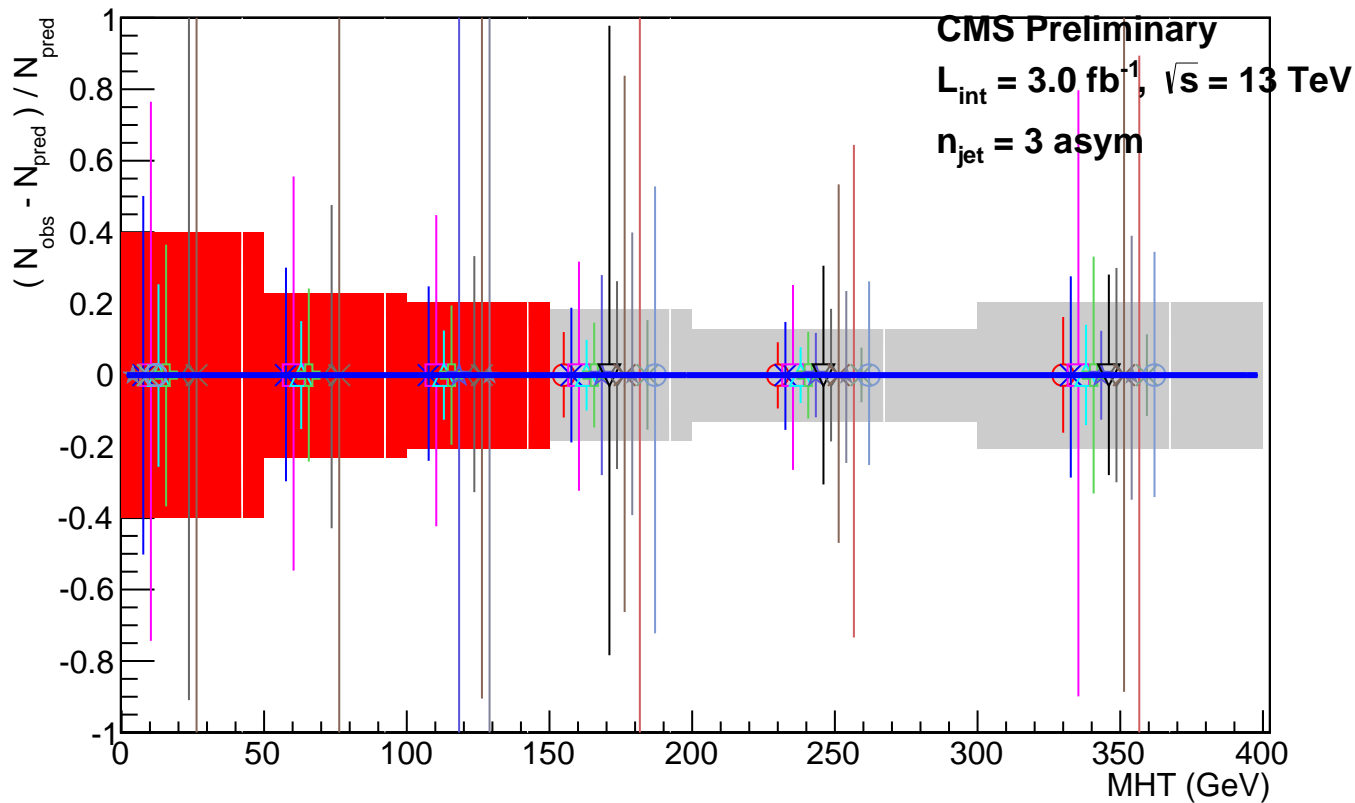
mht40_pt_nJet40_eq_3_ht40_ge_300.0_ht40_lt_350.0_Asym_0 eq3a



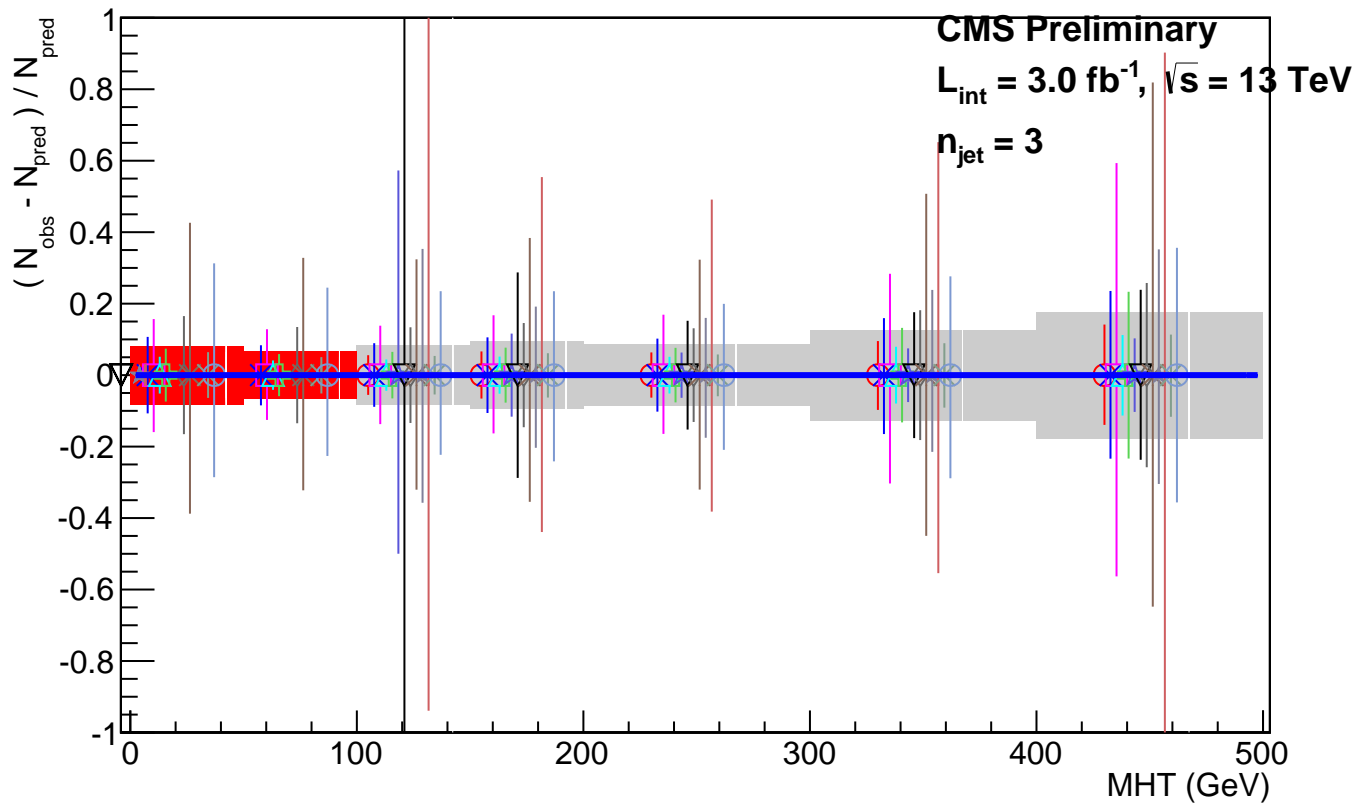
mht40_pt_nJet40_eq_3_ht40_ge_350.0_ht40_lt_400.0_0 eq3j



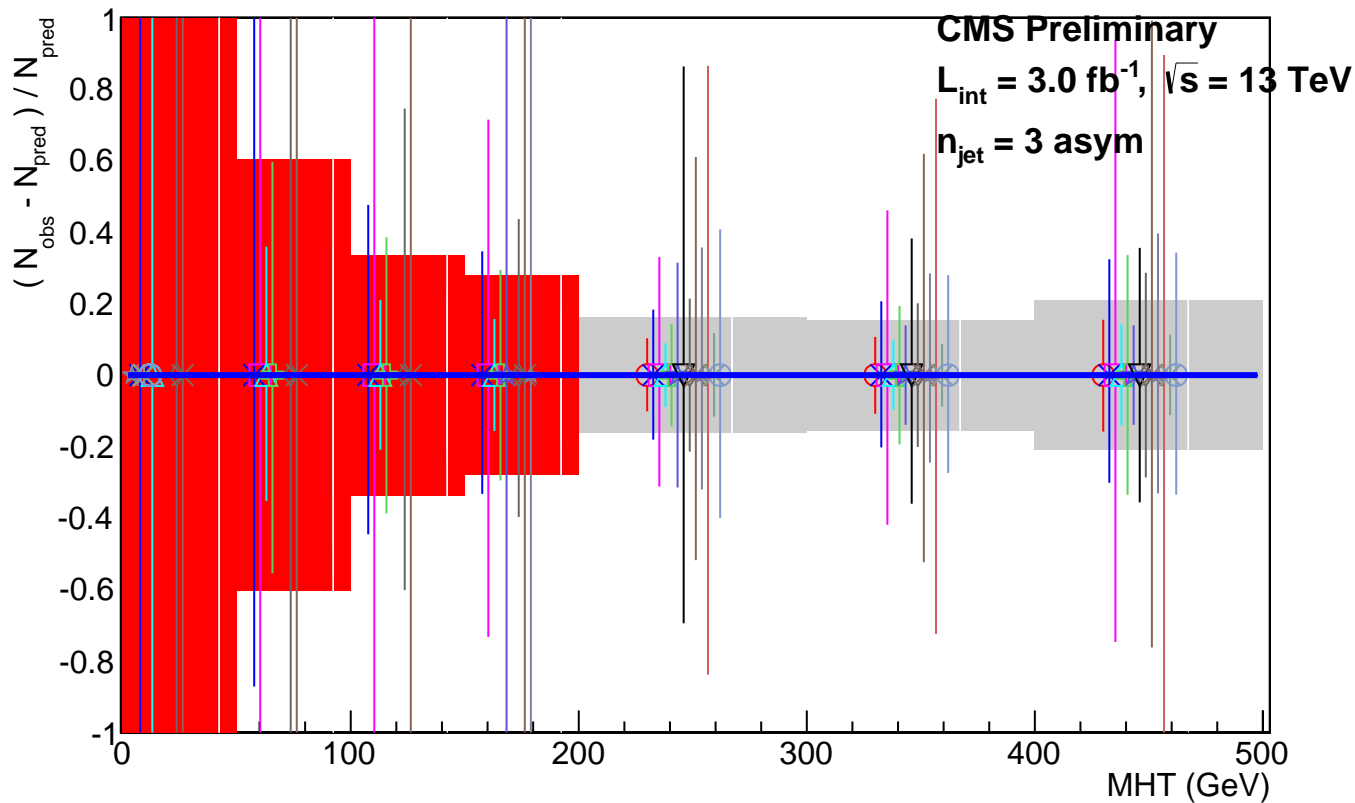
mht40_pt_nJet40_eq_3_ht40_ge_350.0_ht40_lt_400.0_Asym_0 eq3a



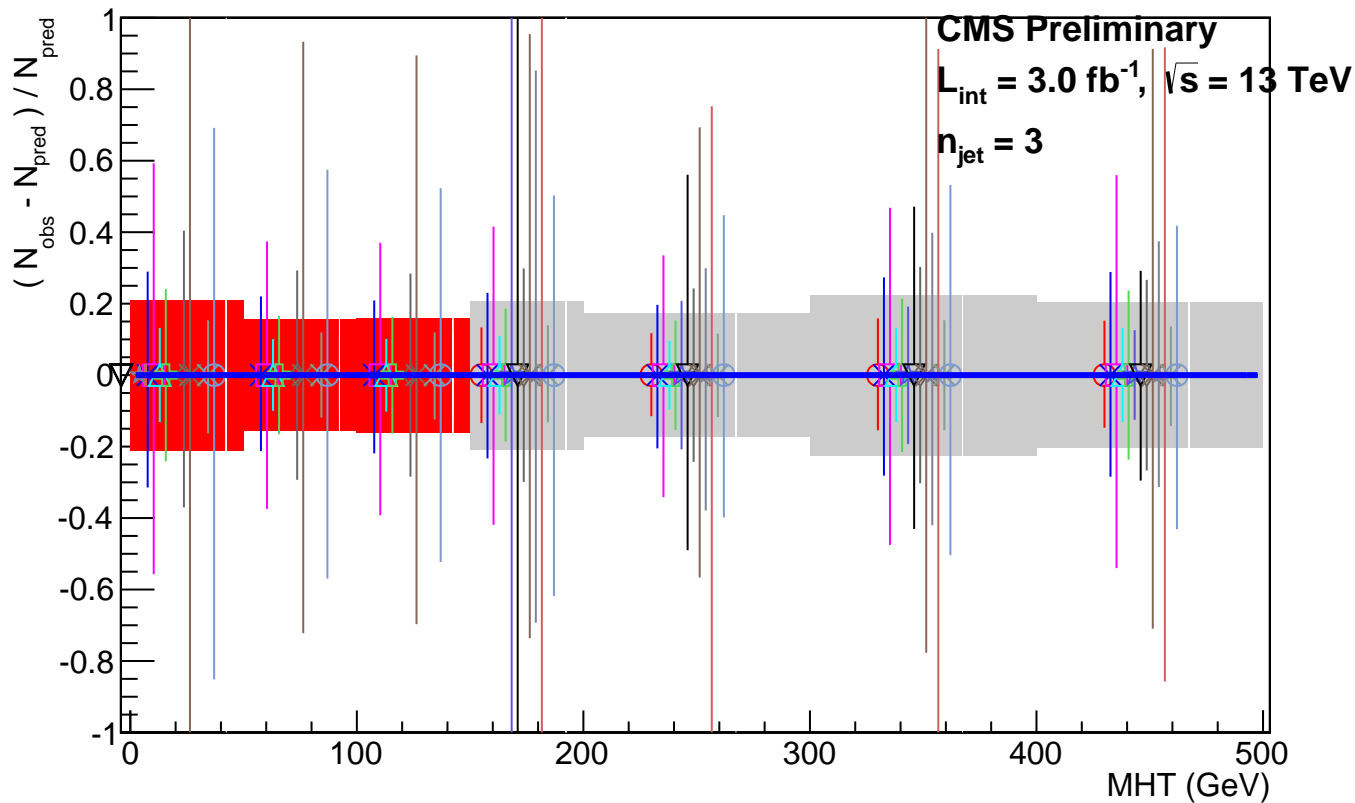
mht40_pt_nJet40_eq_3_ht40_ge_400.0_ht40_lt_600.0_0 eq3j



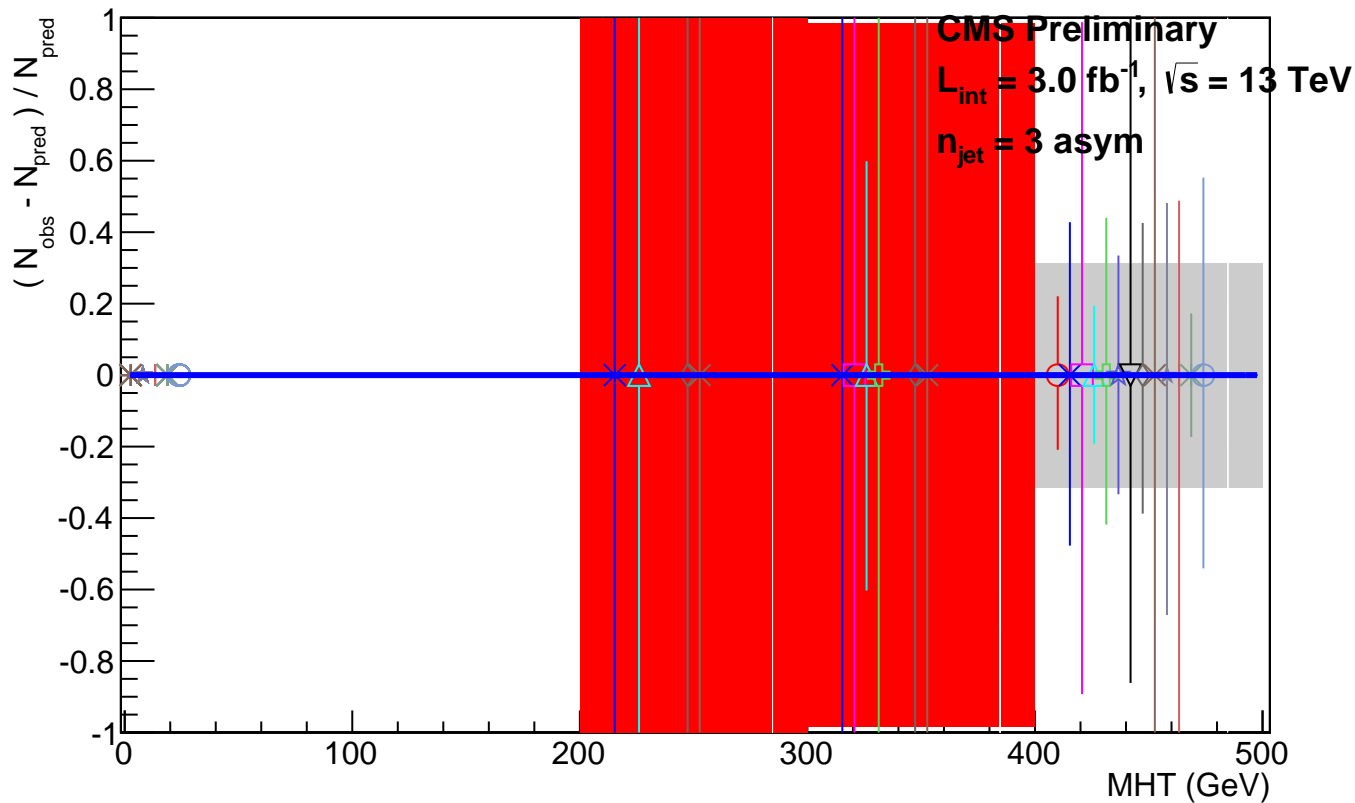
mht40_pt_nJet40_eq_3_ht40_ge_400.0_ht40_lt_600.0_Asym_0 eq3a



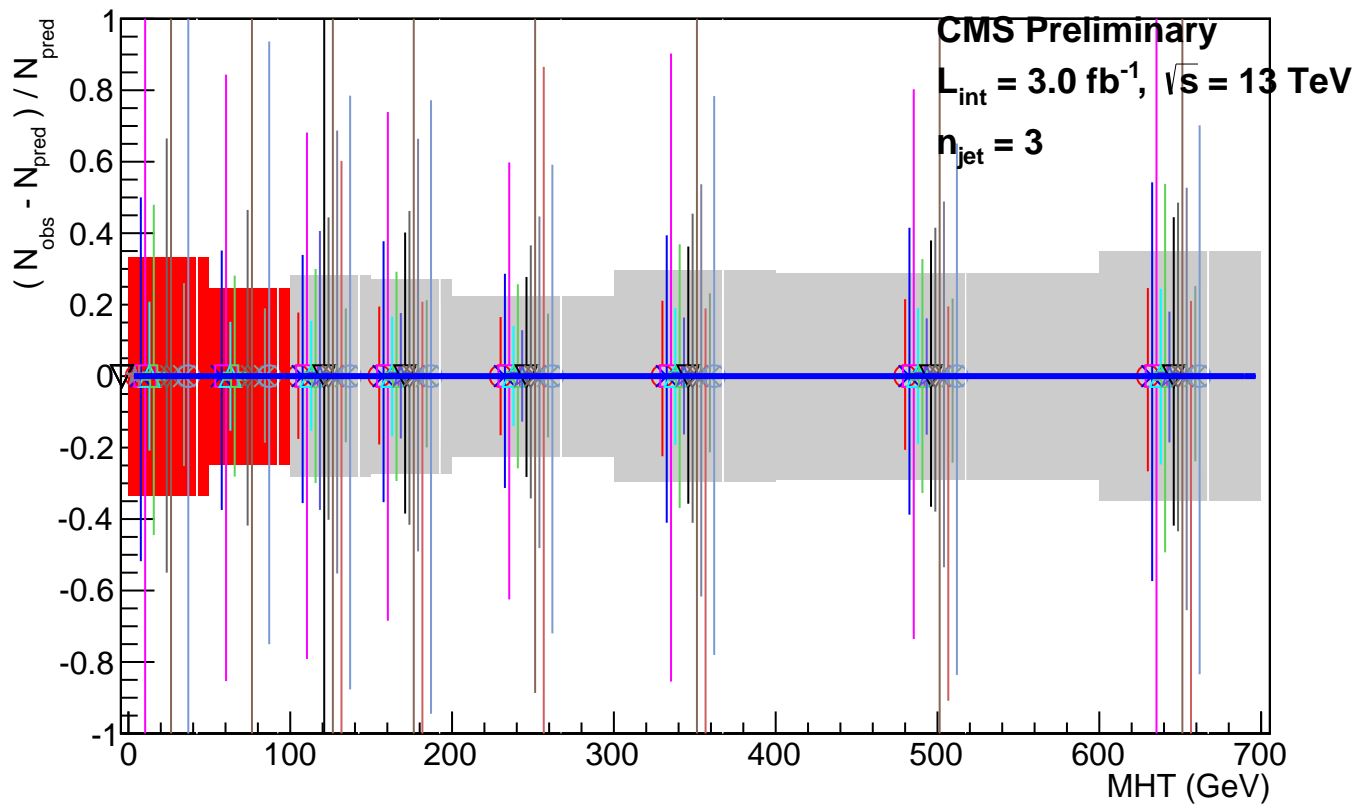
mht40_pt_nJet40_eq_3_ht40_ge_600.0_ht40_lt_800.0_0 eq3j

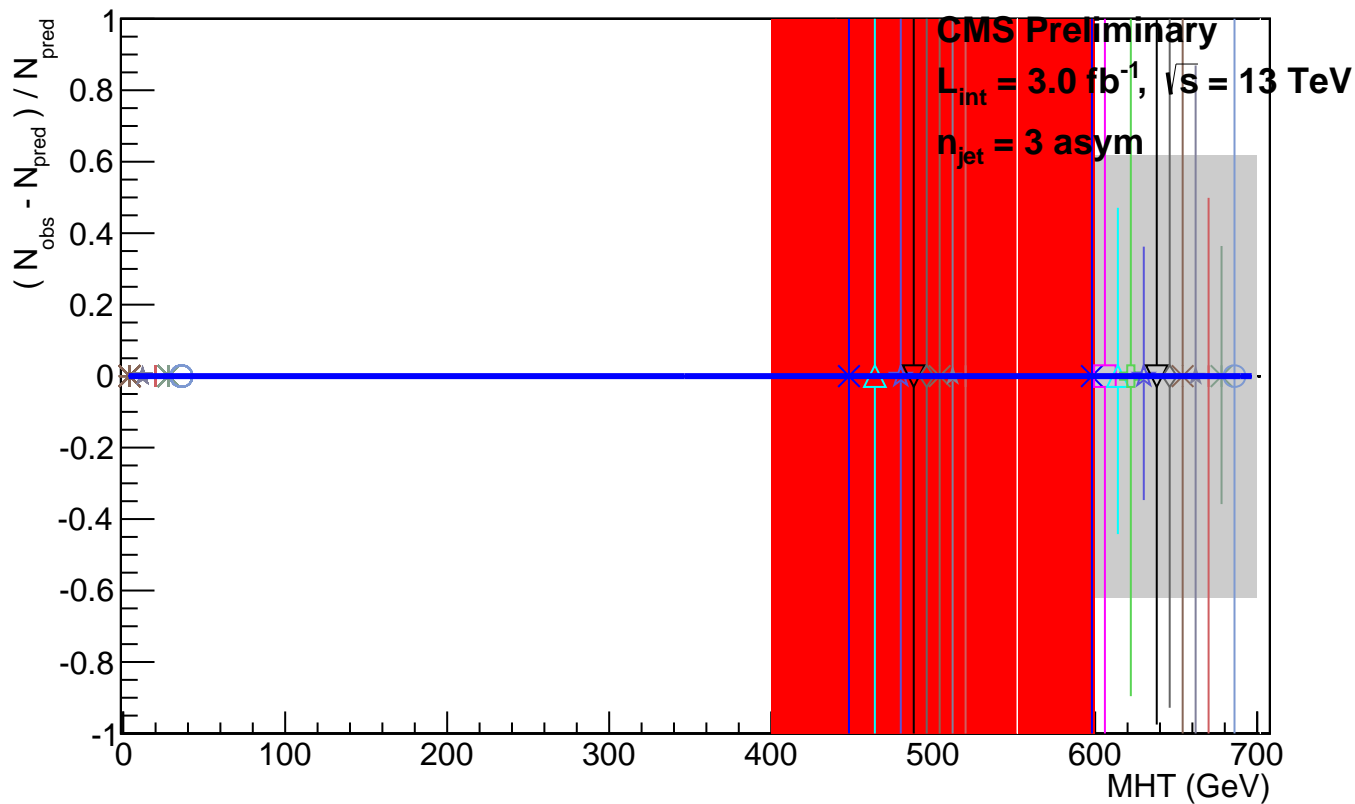


mht40_pt_nJet40_eq_3_ht40_ge_600.0_ht40_lt_800.0_Asym_0 eq3a

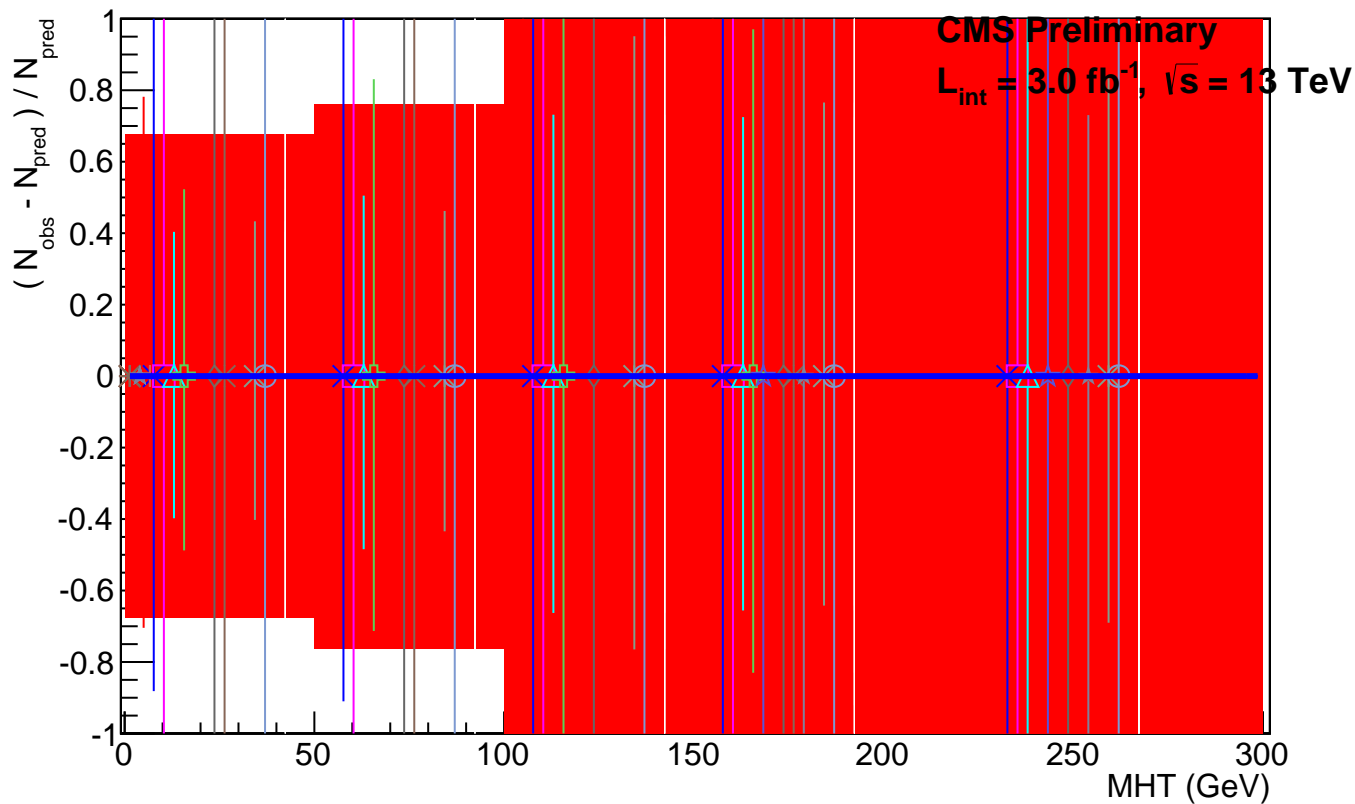


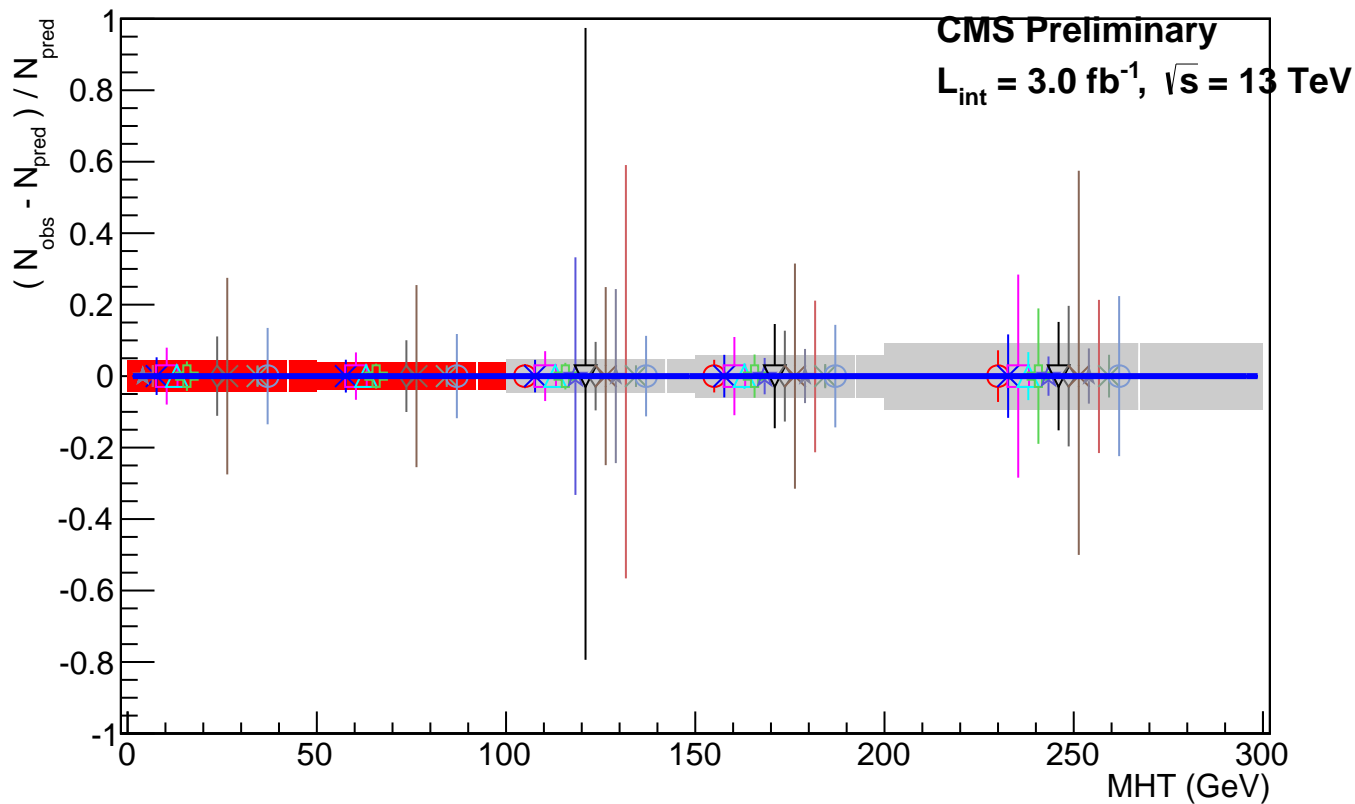
mht40_pt_nJet40_eq_3_ht40_ge_800.0_ht40_lt_99999.0_0 eq3j

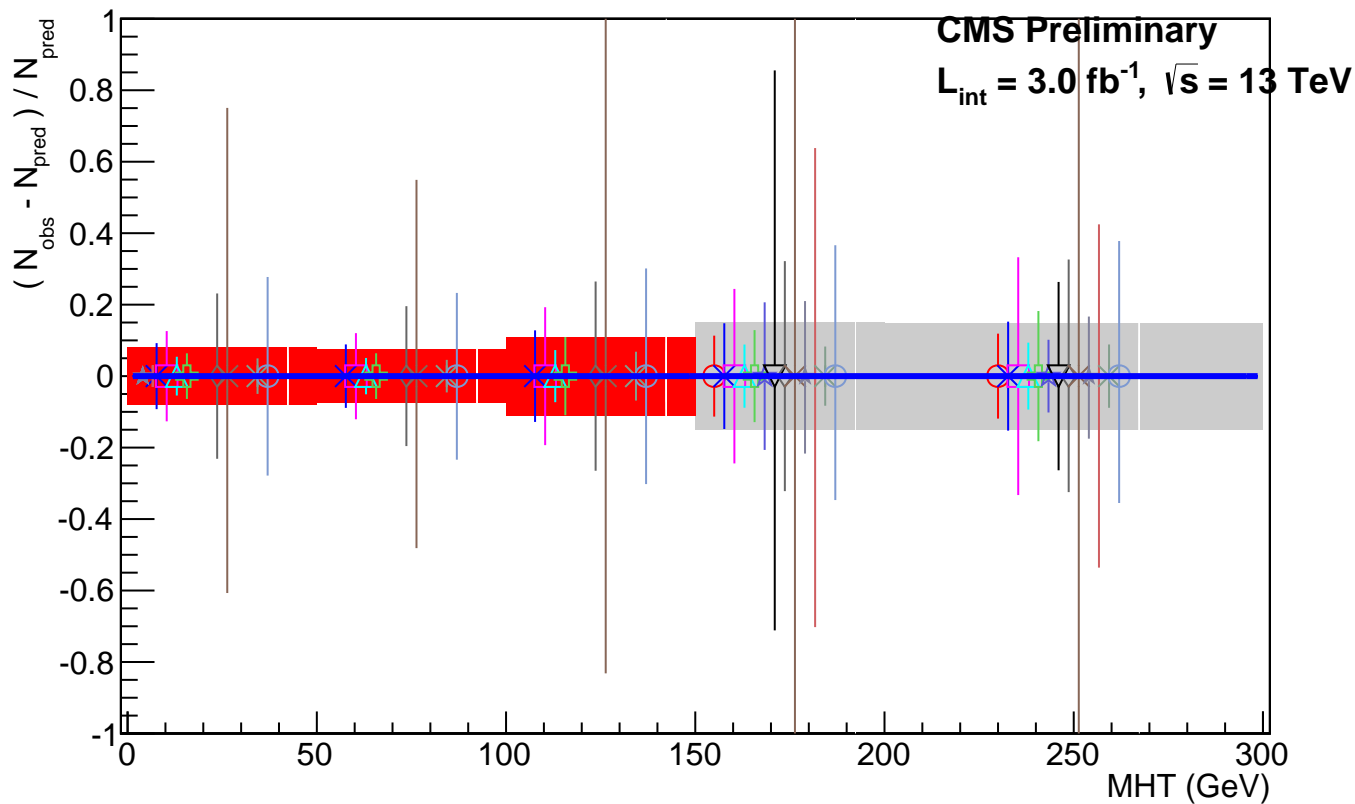


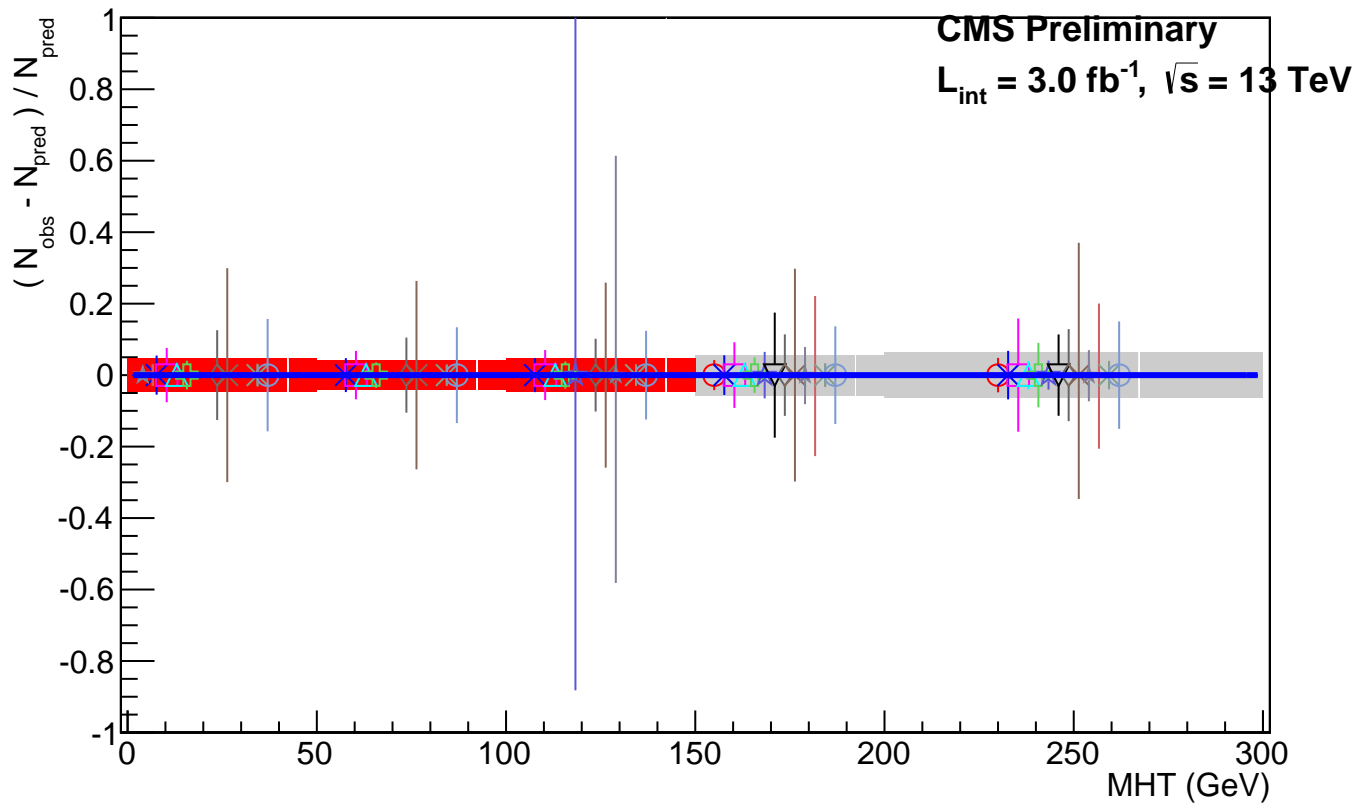


mht40_pt_nJet40_eq_3_ht40_ge_200.0_ht40_lt_250.0_0_Integrated eq3j_Integrated

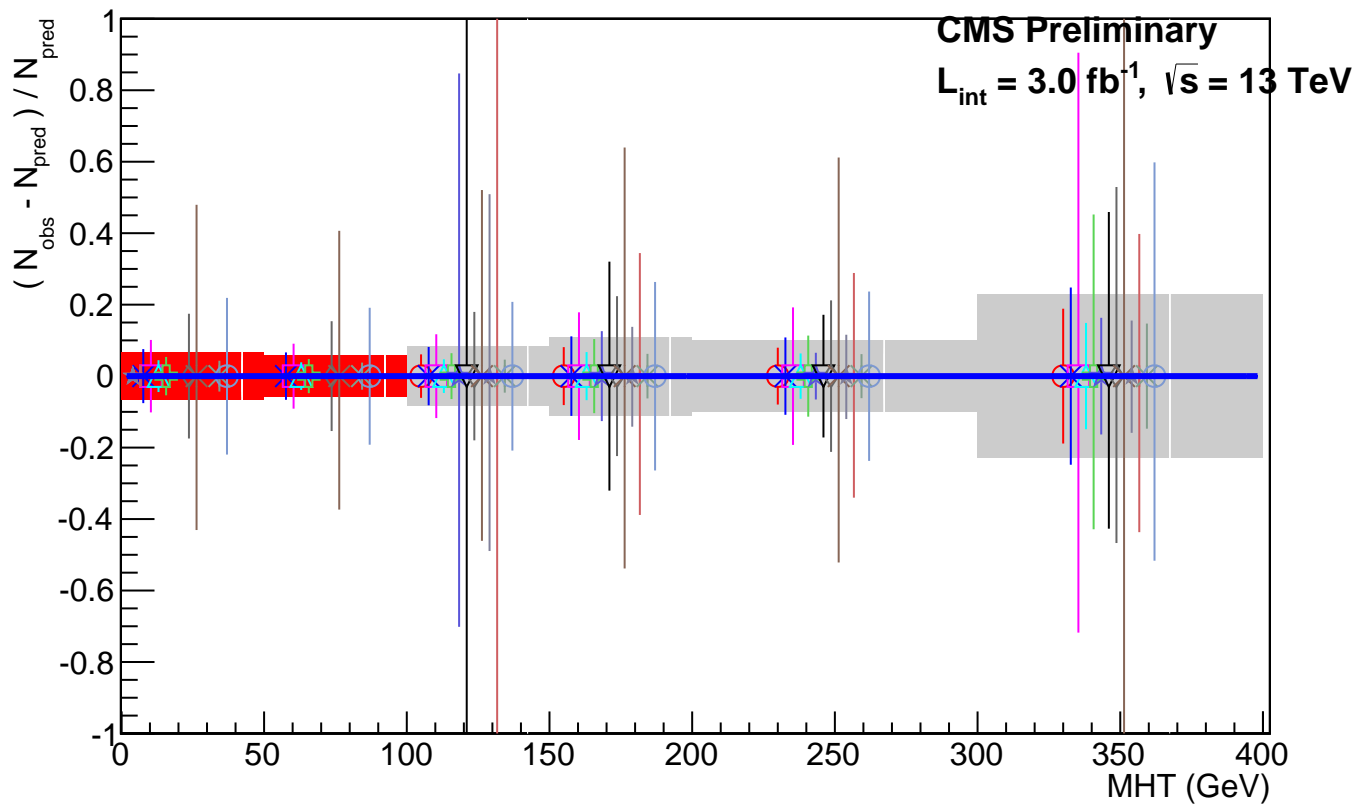


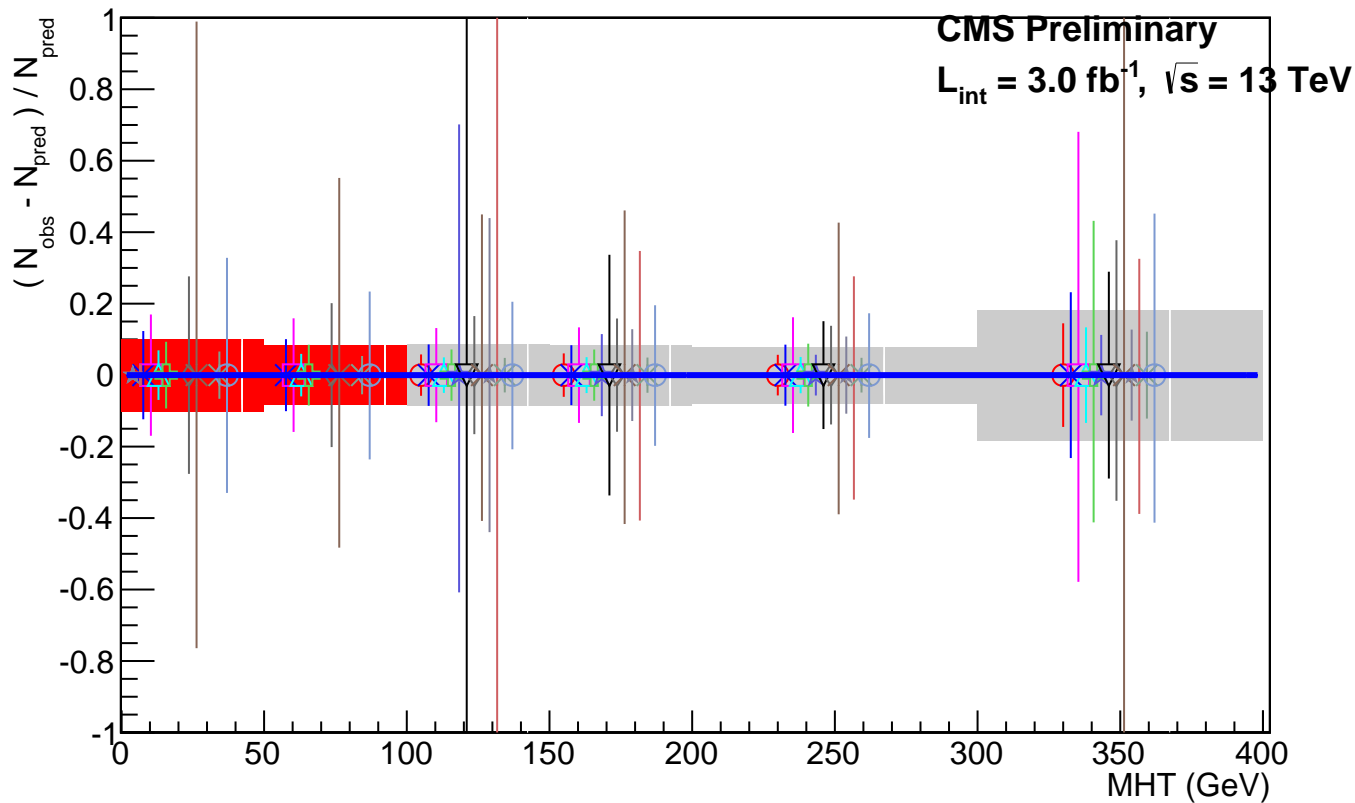


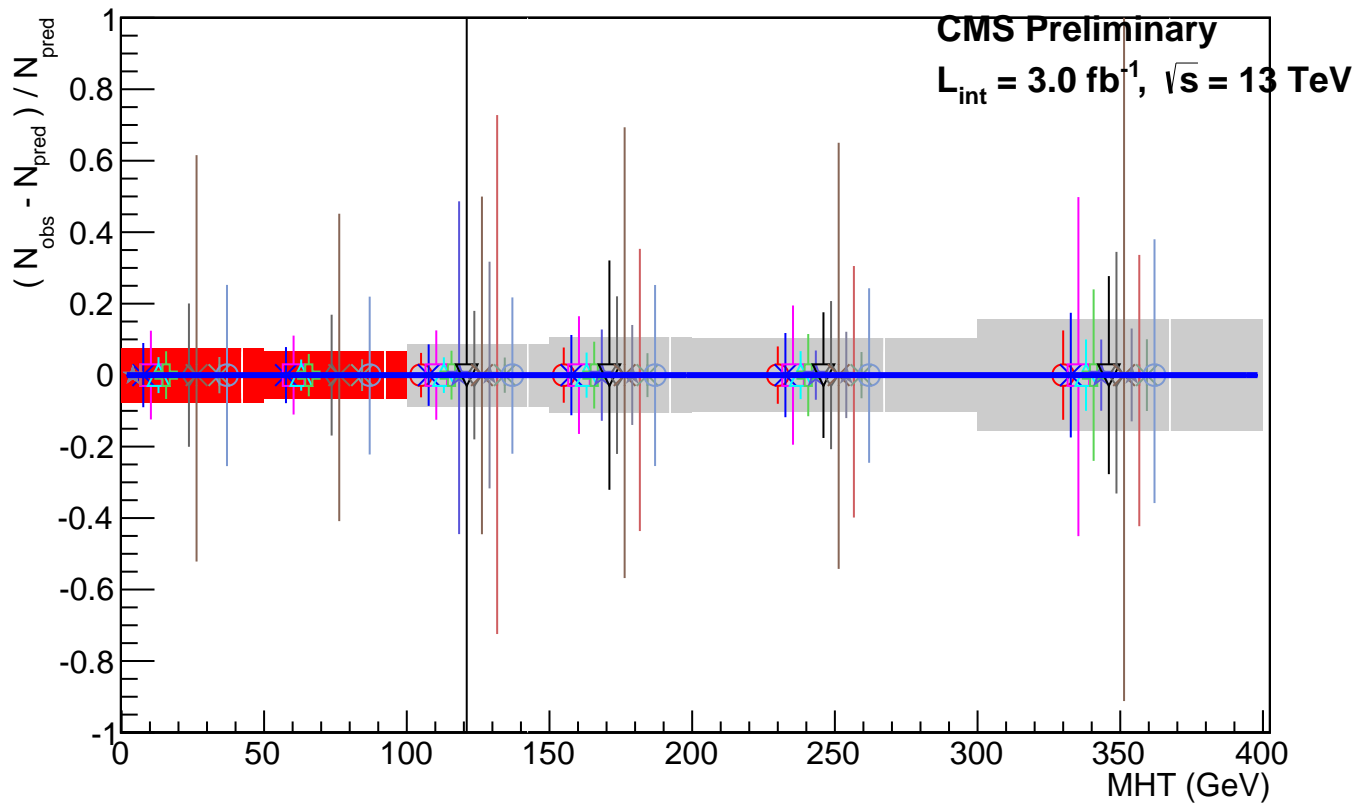


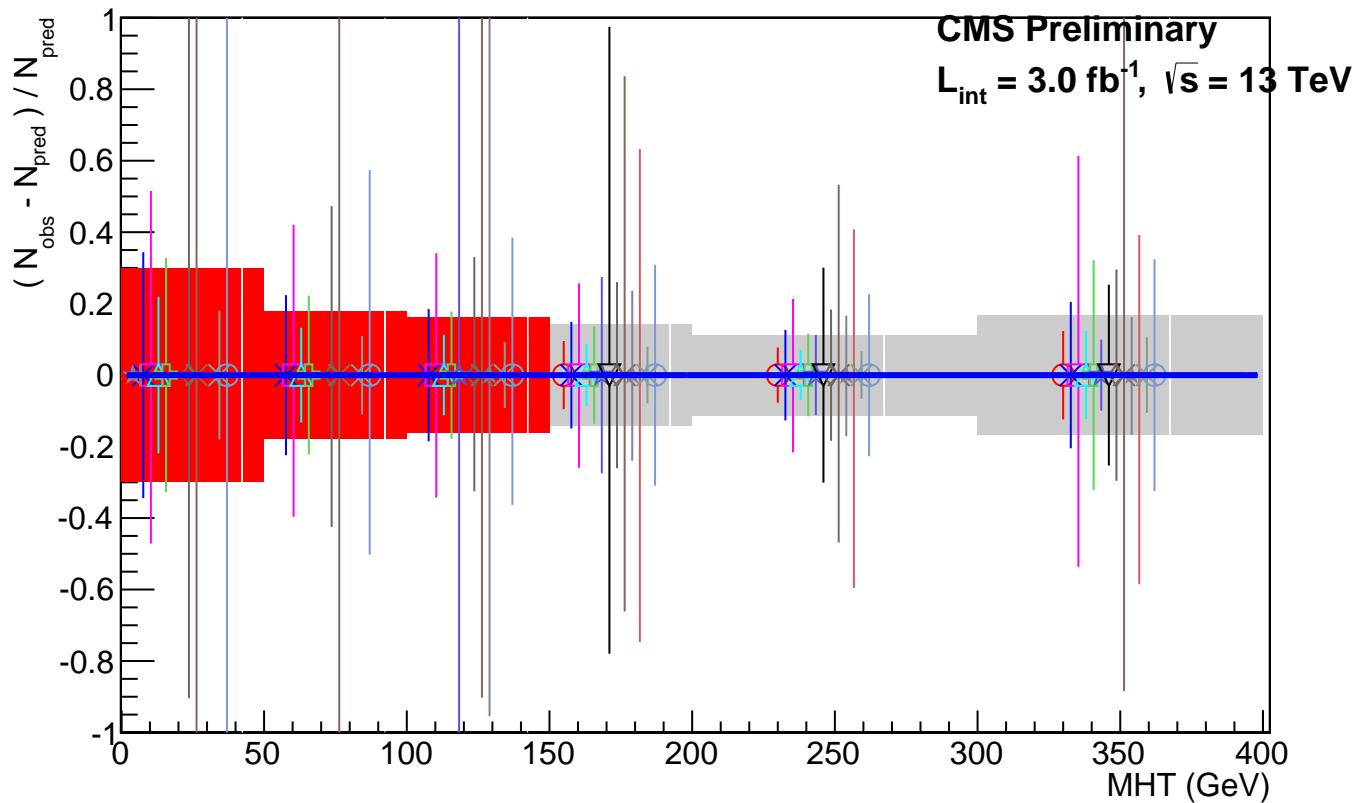


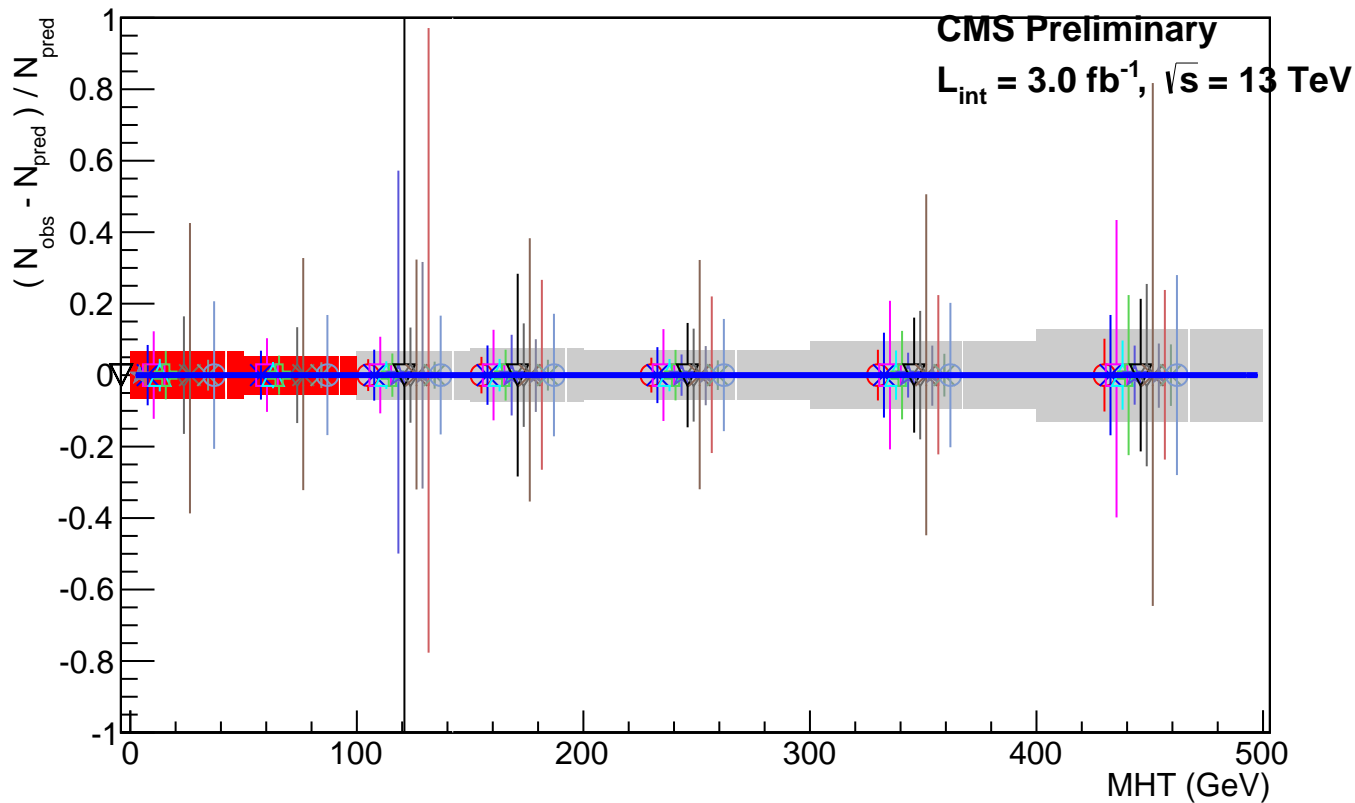
mht40_pt_nJet40_eq_3_ht40_ge_300.0_ht40_lt_350.0_0_Integrated eq3j_Integrated

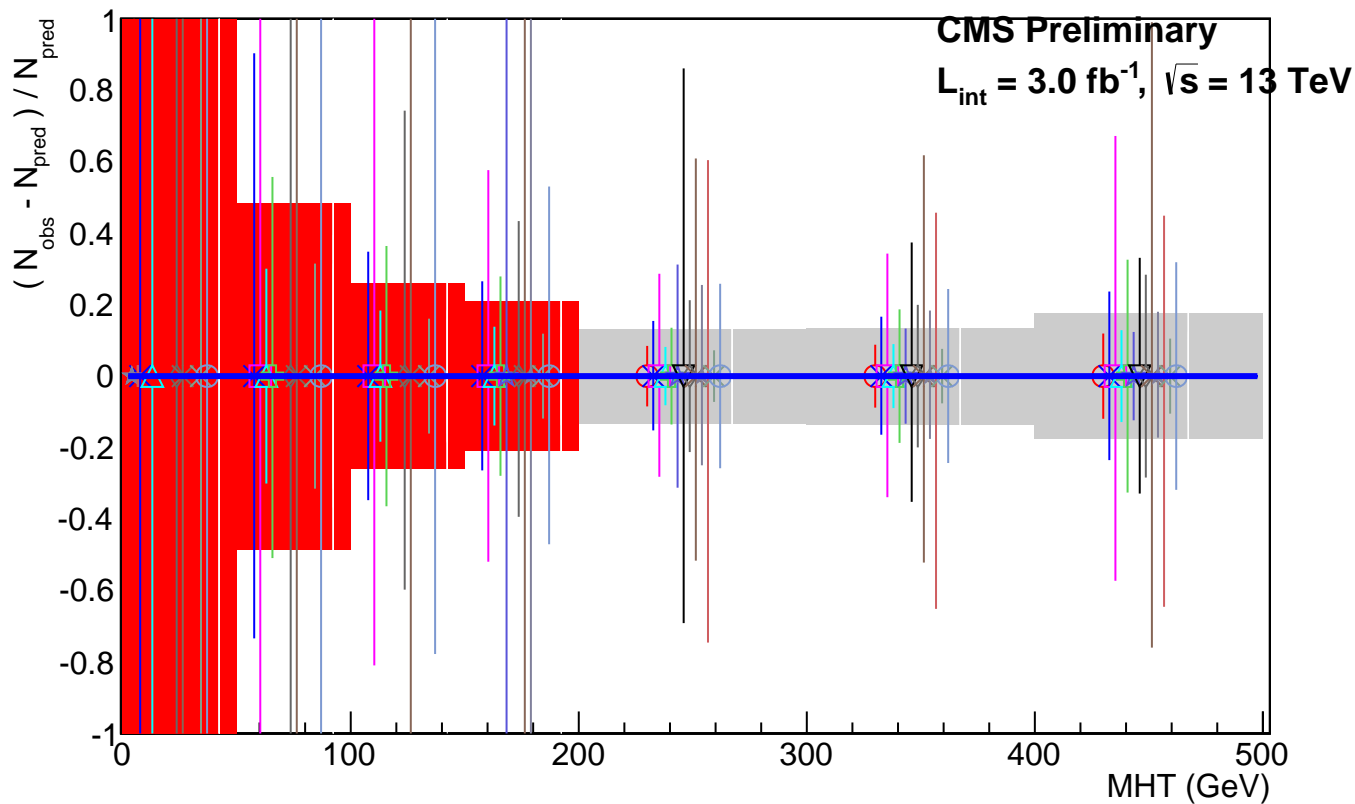


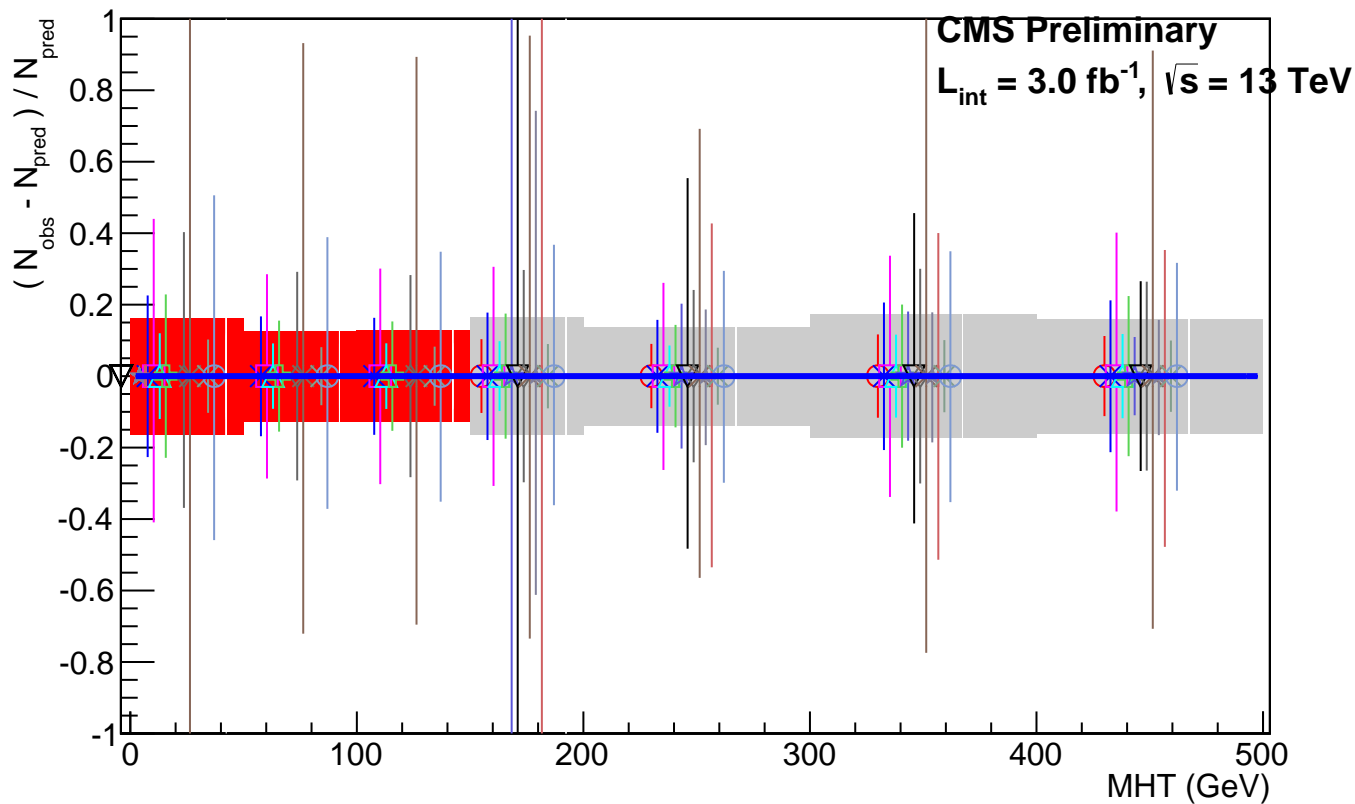


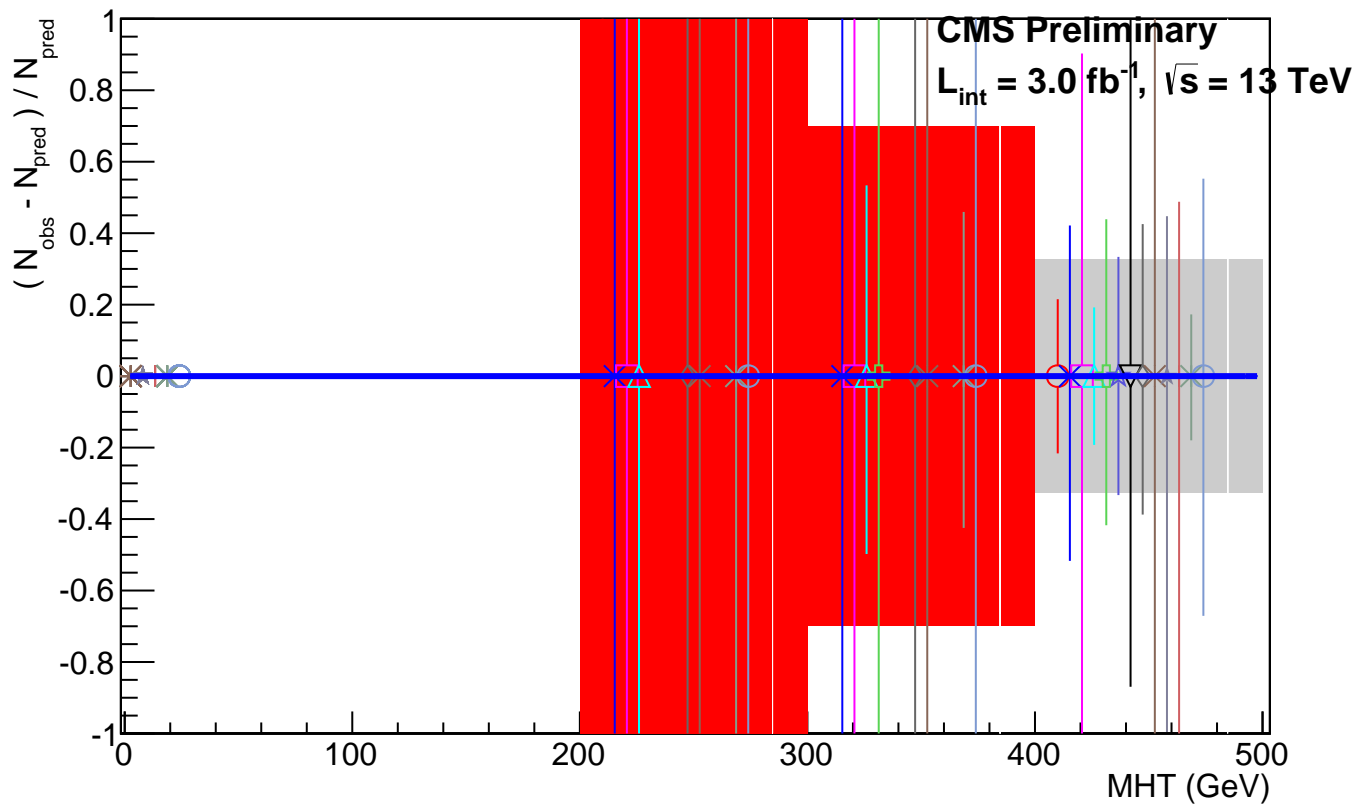


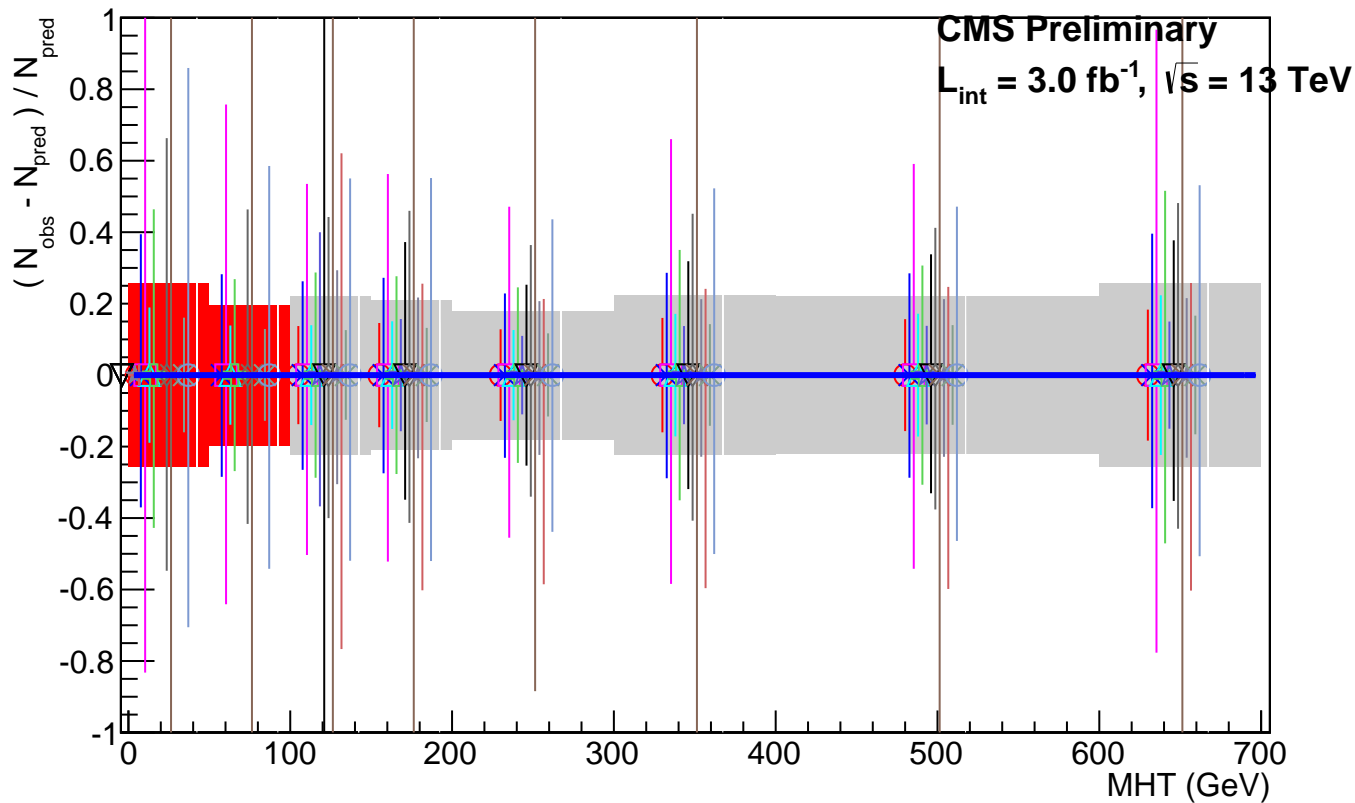


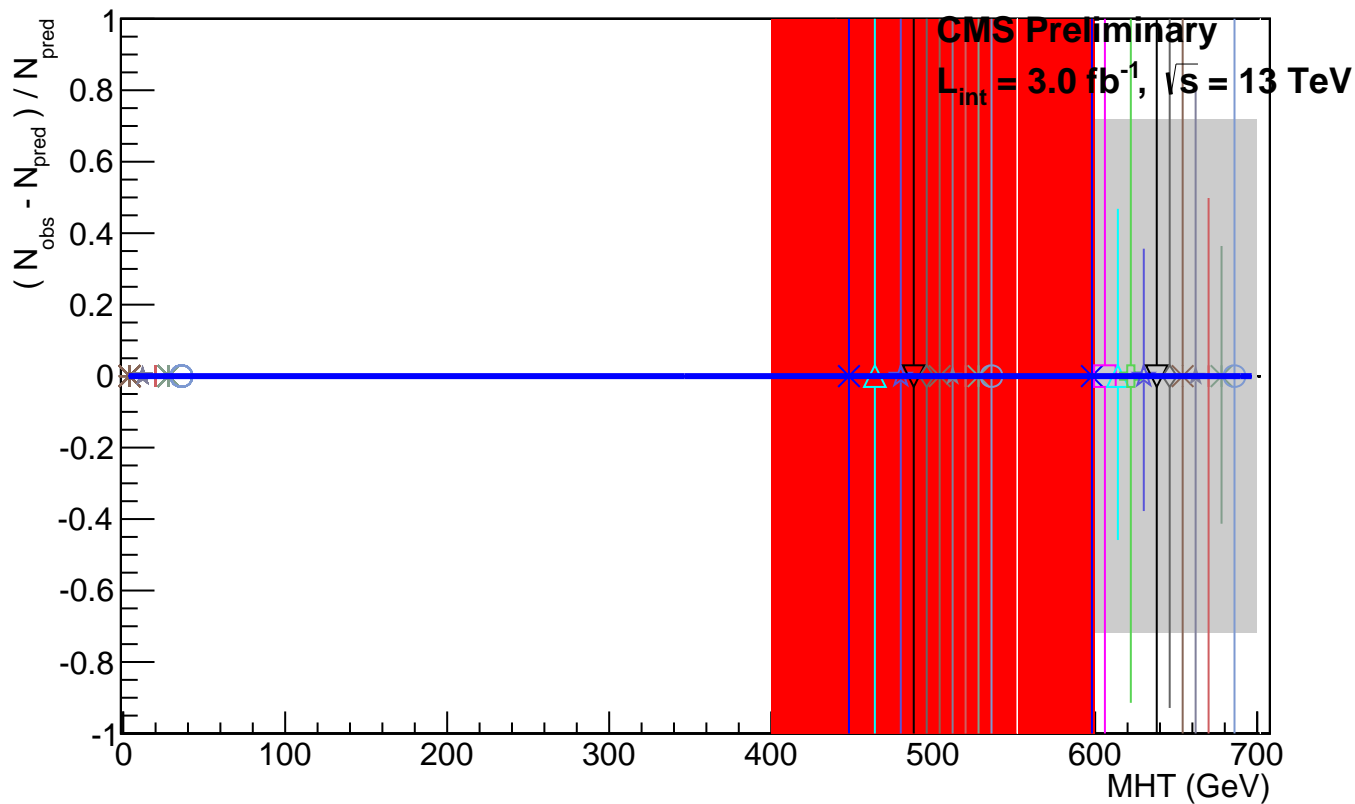












■ **Systematic uncertainty**

■ **Missing closure point**

○ $\mu + \text{jets} \rightarrow e + \text{jets}$ (0 b-tags)

× $\mu + \text{jets} \rightarrow e + \text{jets}$ (1 b-tags)

□ $\mu + \text{jets} \rightarrow e + \text{jets}$ (≥ 2 b-tags)

△ 0 b-tags \rightarrow 1 b-tag ($\mu + \text{jets}$)

⊕ 1 b-tags $\rightarrow \geq 2$ b-tag ($\mu + \text{jets}$)

☆ $e + \text{jets} \rightarrow \gamma + \text{jets}$ (0 b-tags)

▽ $e + \text{jets} \rightarrow \gamma + \text{jets}$ (1 b-tags)

◇ $\mu + \text{jets} \rightarrow \mu\mu + \text{jets}$ (0 b-tags)

✱ $\mu + \text{jets} \rightarrow \mu\mu + \text{jets}$ (1 b-tags)

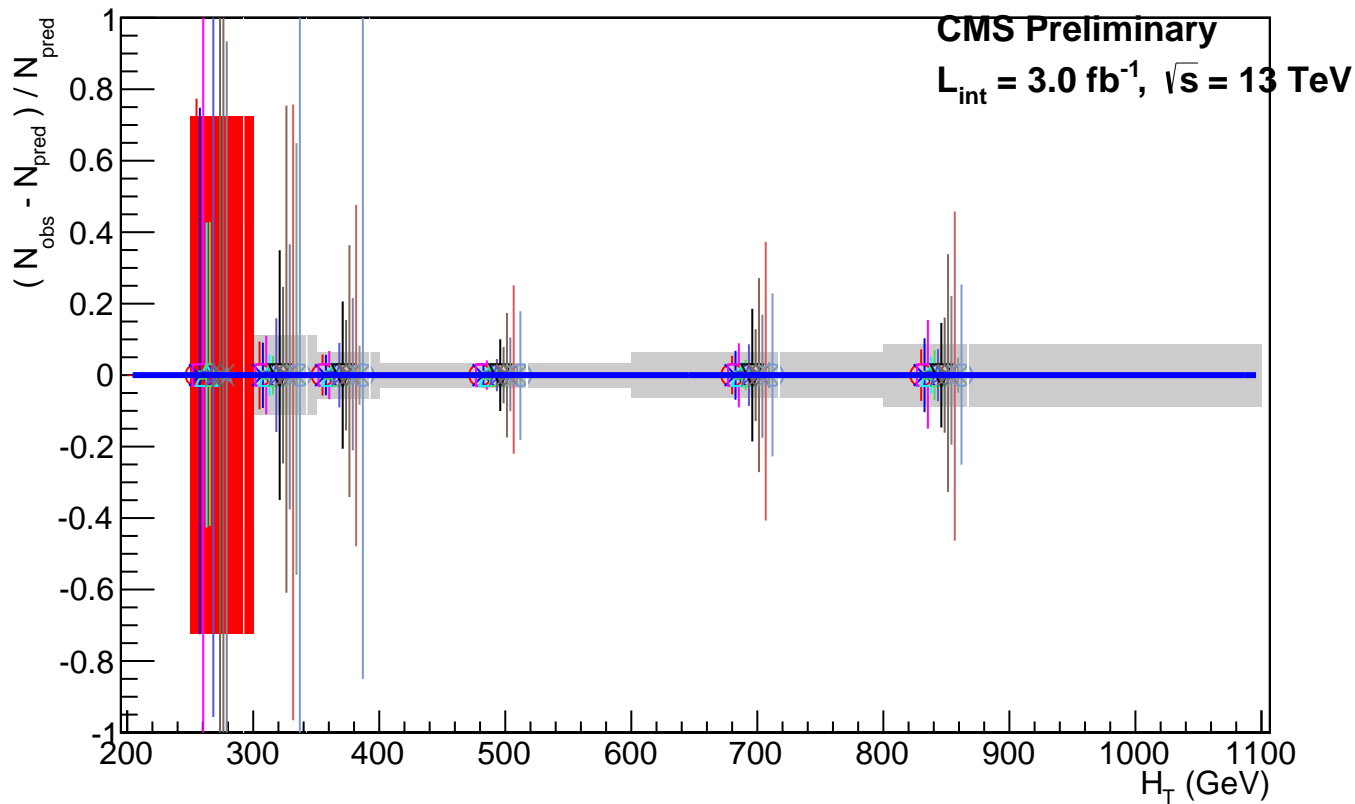
★ $ee + \text{jets} \rightarrow \gamma + \text{jets}$ (0 b-tags)

⊕ $ee + \text{jets} \rightarrow \gamma + \text{jets}$ (1 b-tags)

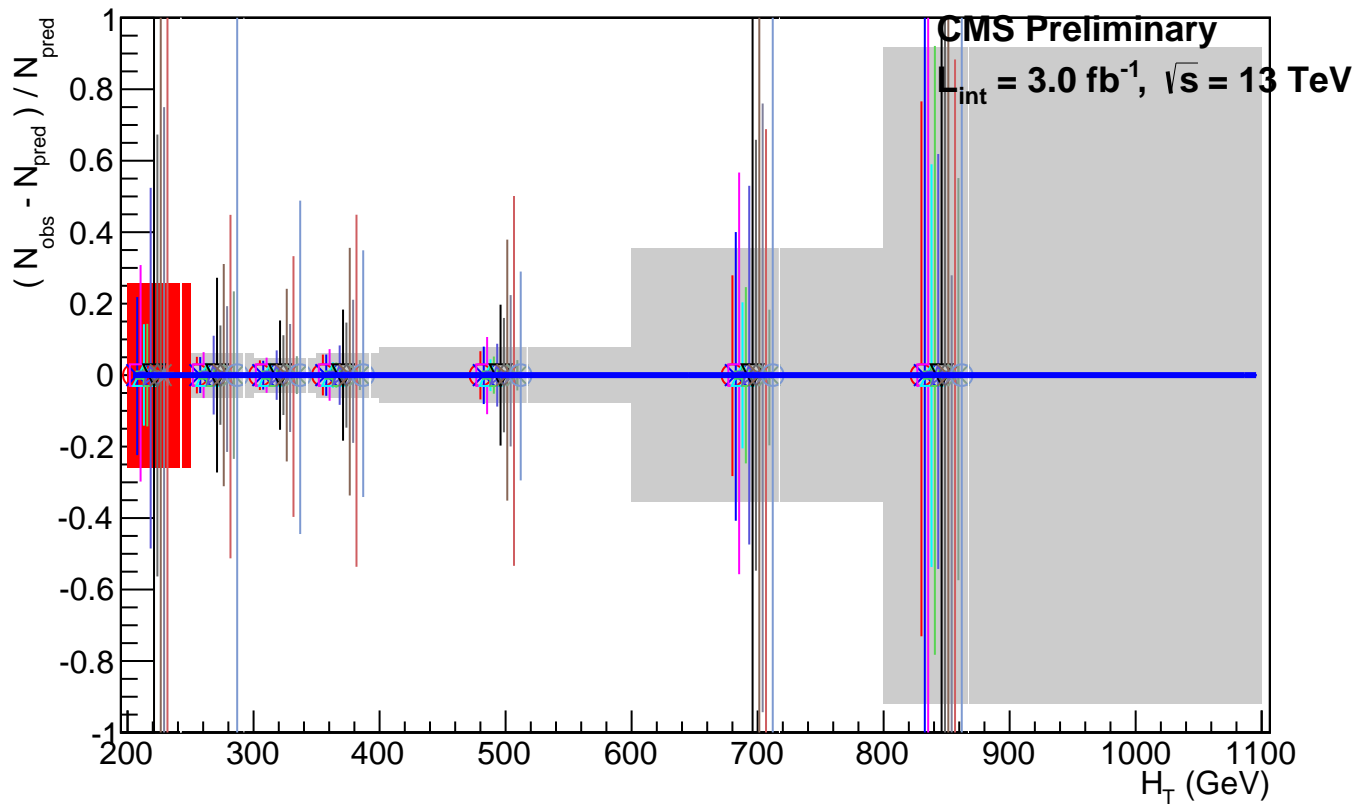
✱ $N_{\text{jet}} = 4 \rightarrow N_{\text{jet}} \geq 5$ ($e + \text{jets}$)

○ $N_{\text{jet}} = 4 \rightarrow N_{\text{jet}} \geq 5$ ($ee + \text{jets}$)

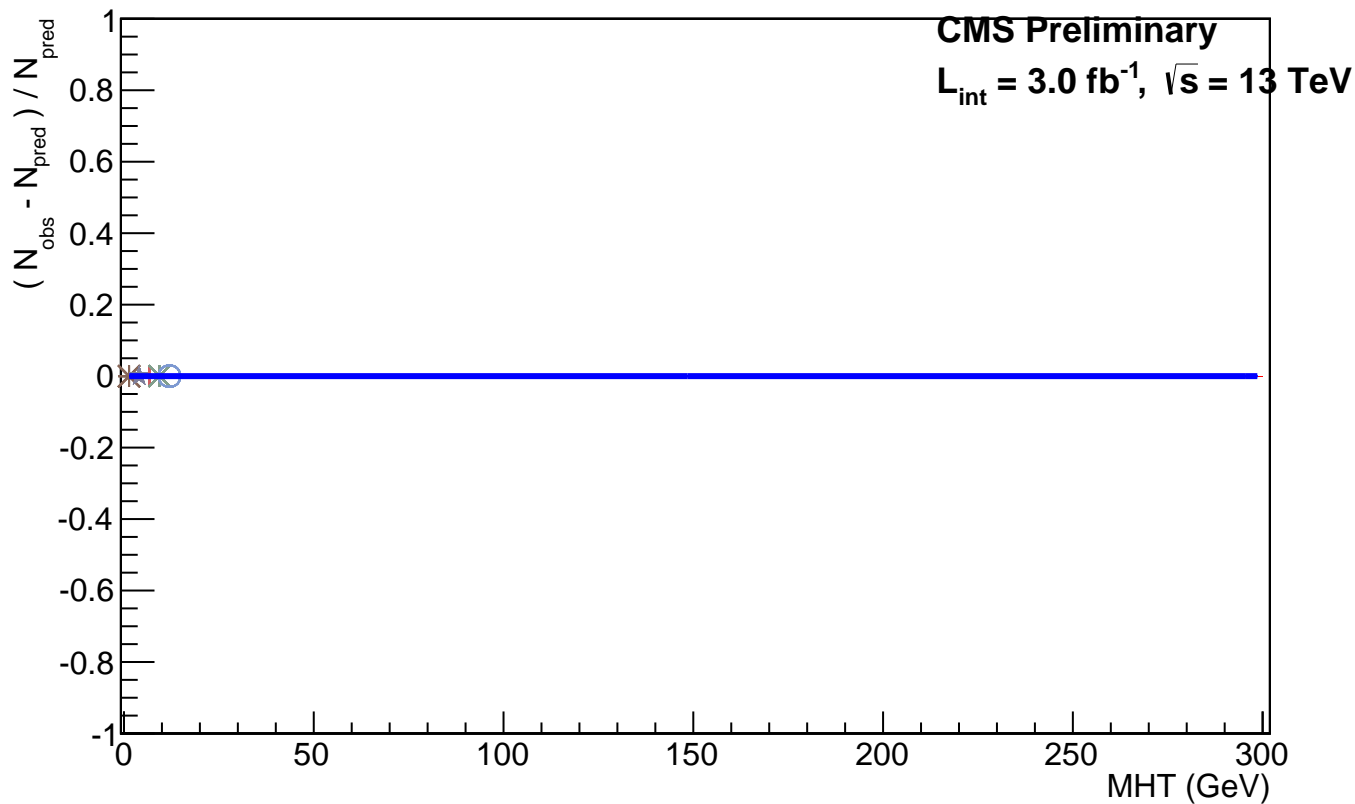
ht40_nJet40_eq_4_0 eq4j



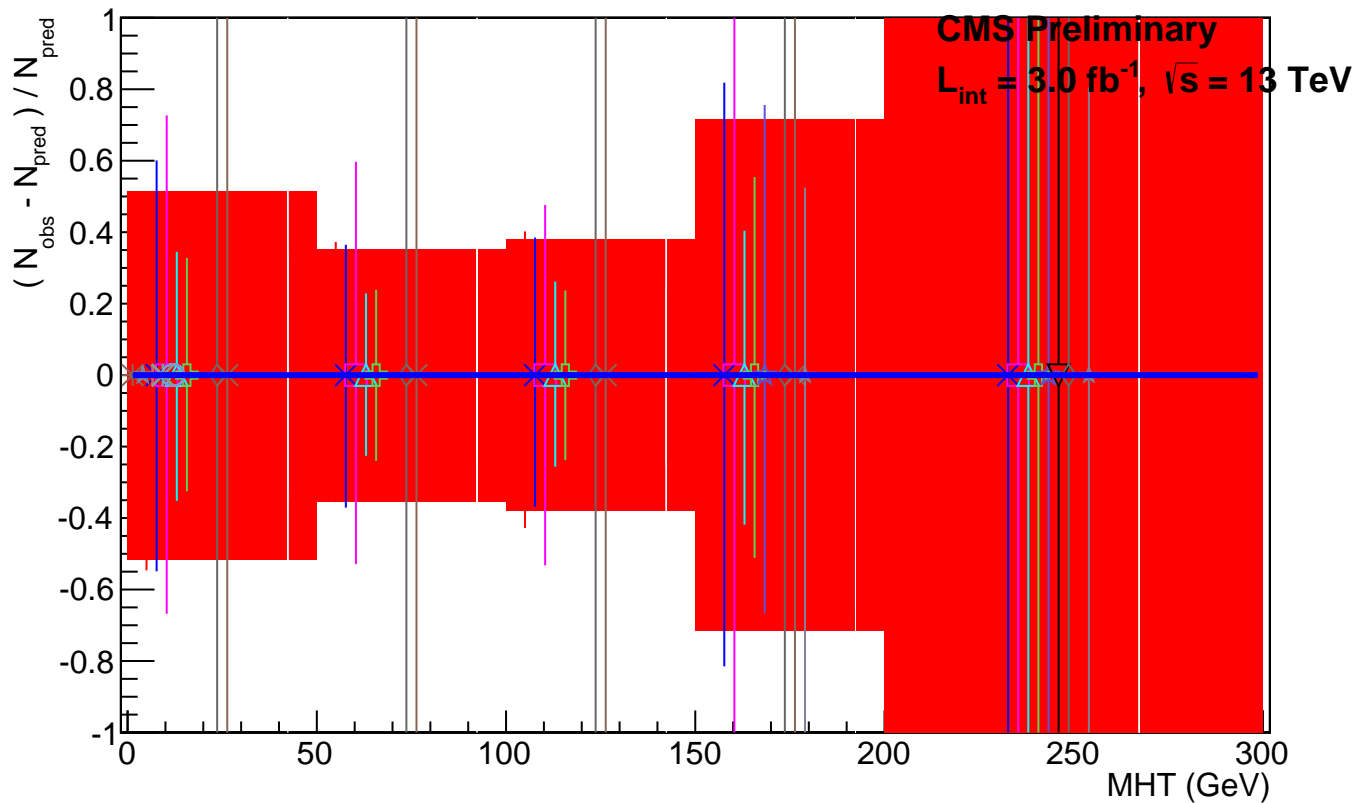
ht40_nJet40_eq_4_Asym_0 eq4a



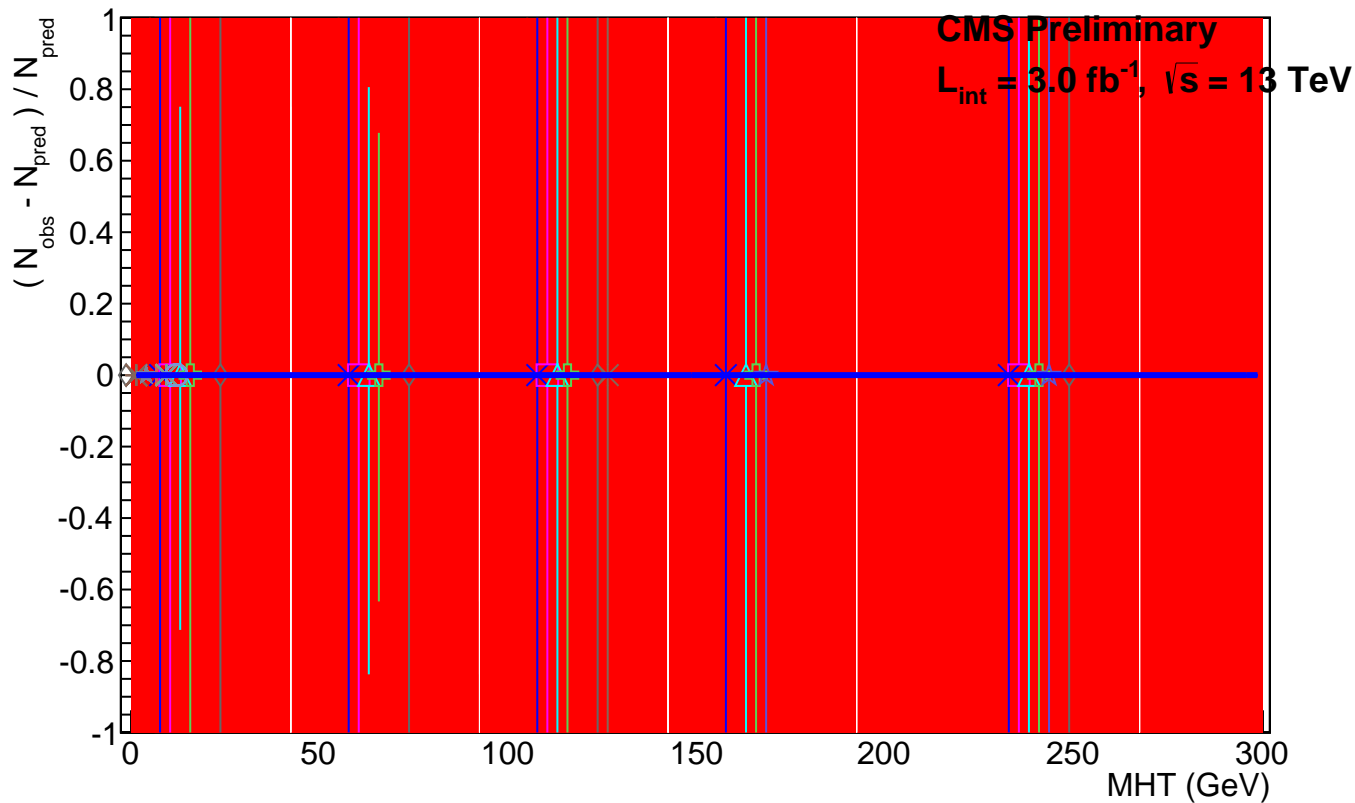
mht40_pt_nJet40_eq_4_ht40_ge_200.0_ht40_lt_250.0_0 eq4j



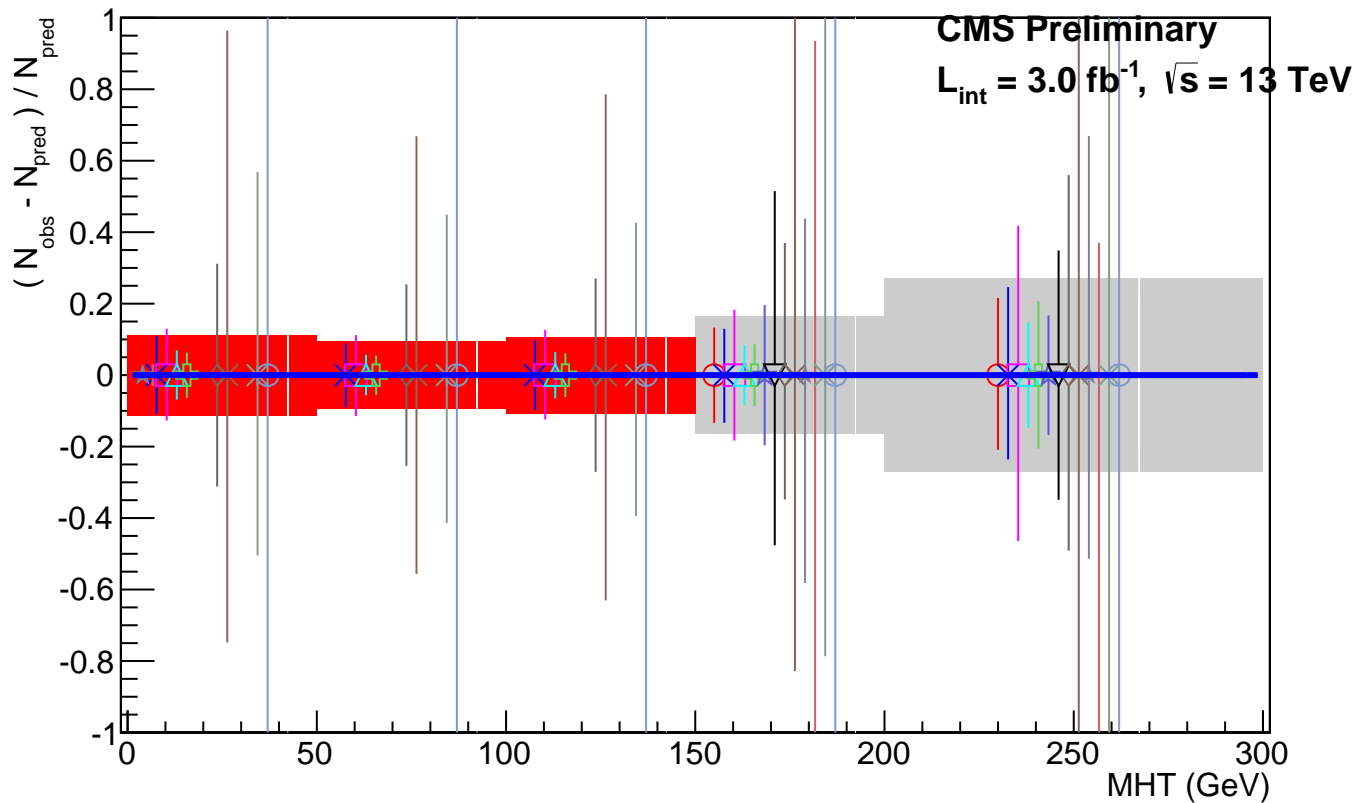
mht40_pt_nJet40_eq_4_ht40_ge_200.0_ht40_lt_250.0_Asym_0_eq4a



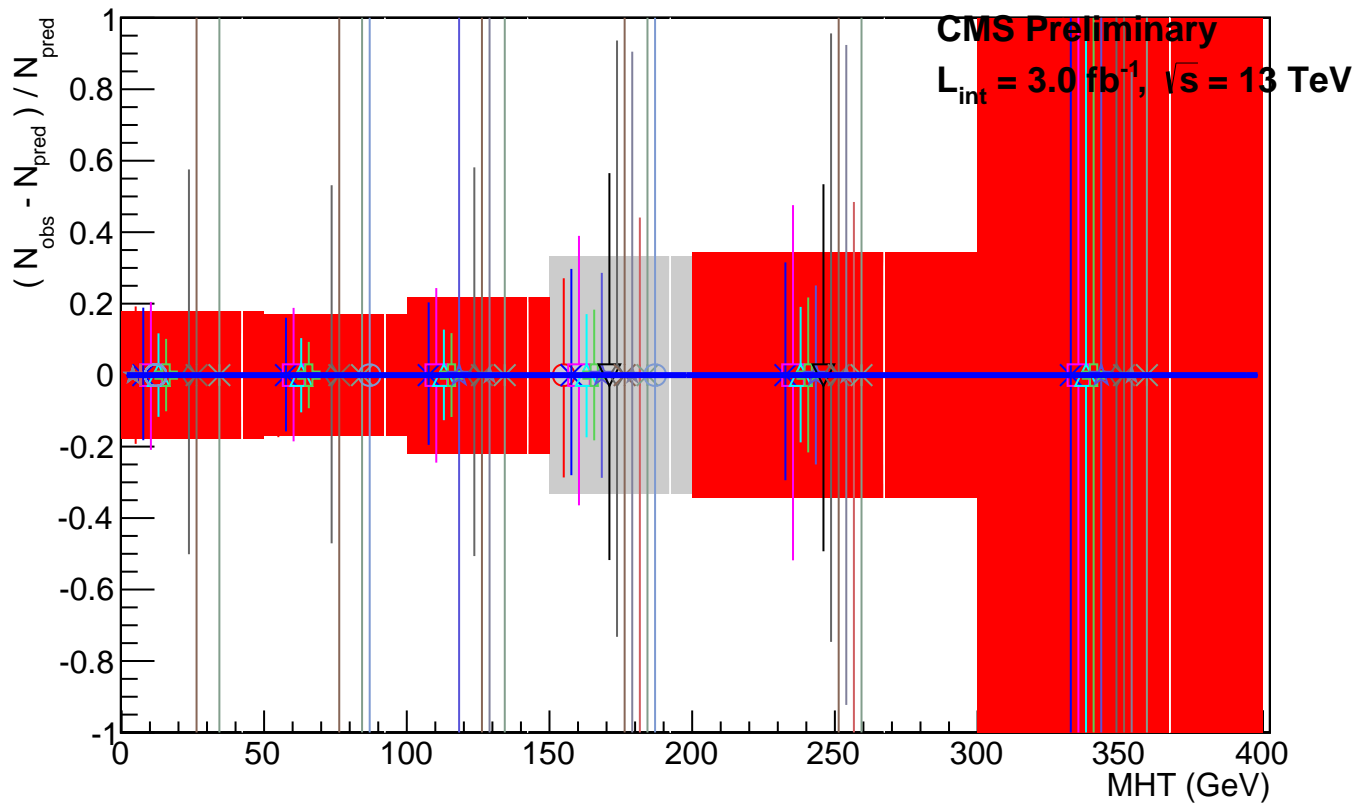
mht40_pt_nJet40_eq_4_ht40_ge_250.0_ht40_lt_300.0_0 eq4j



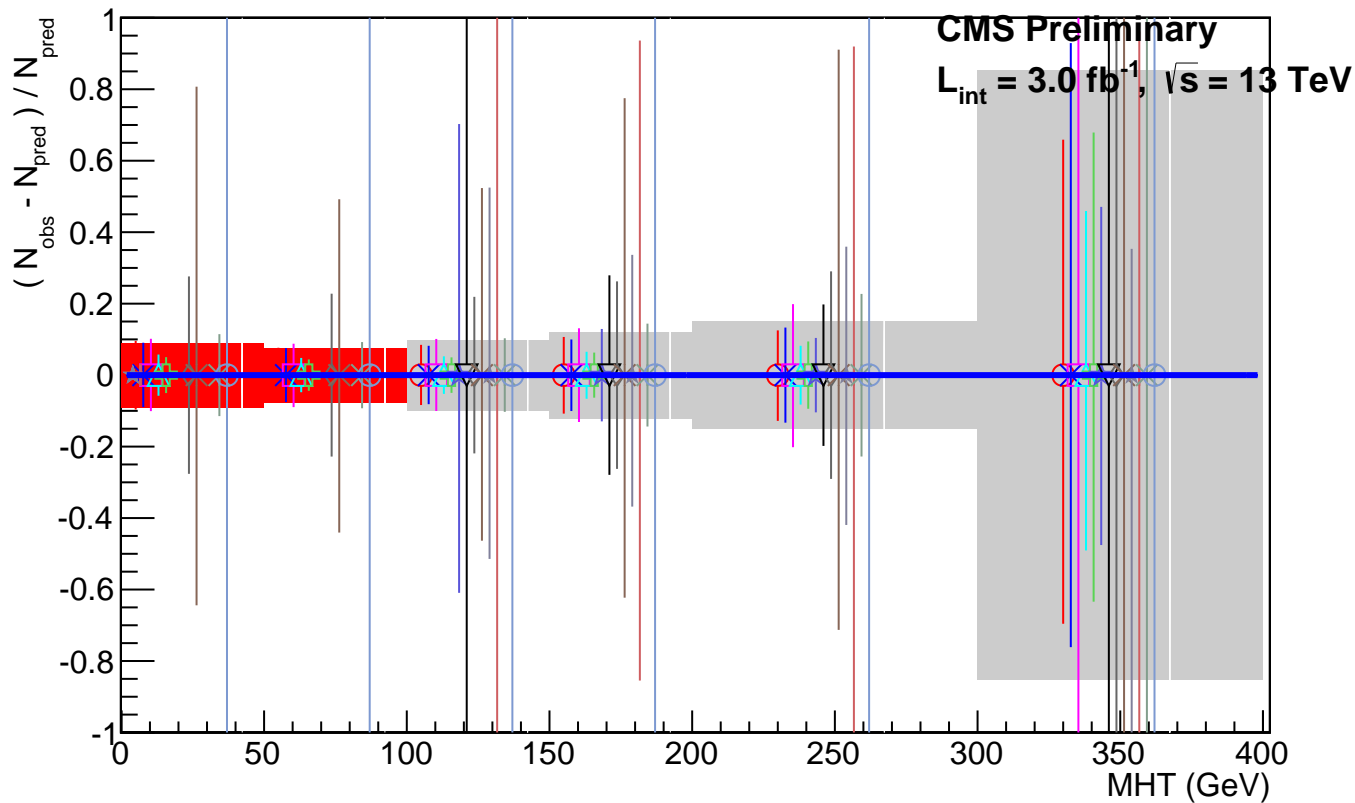
mht40_pt_nJet40_eq_4_ht40_ge_250.0_ht40_lt_300.0_Asym_0_eq4a



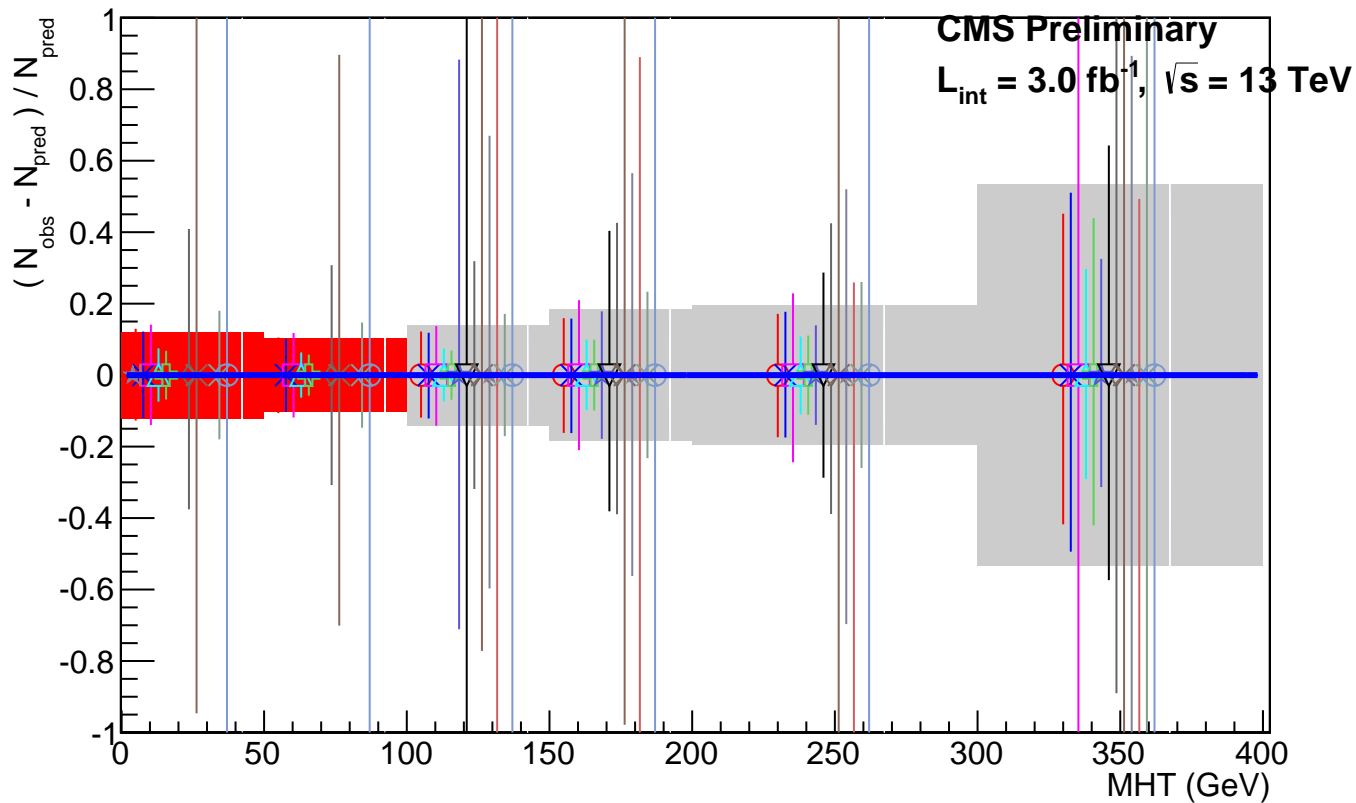
mht40_pt_nJet40_eq_4_ht40_ge_300.0_ht40_lt_350.0_0 eq4j



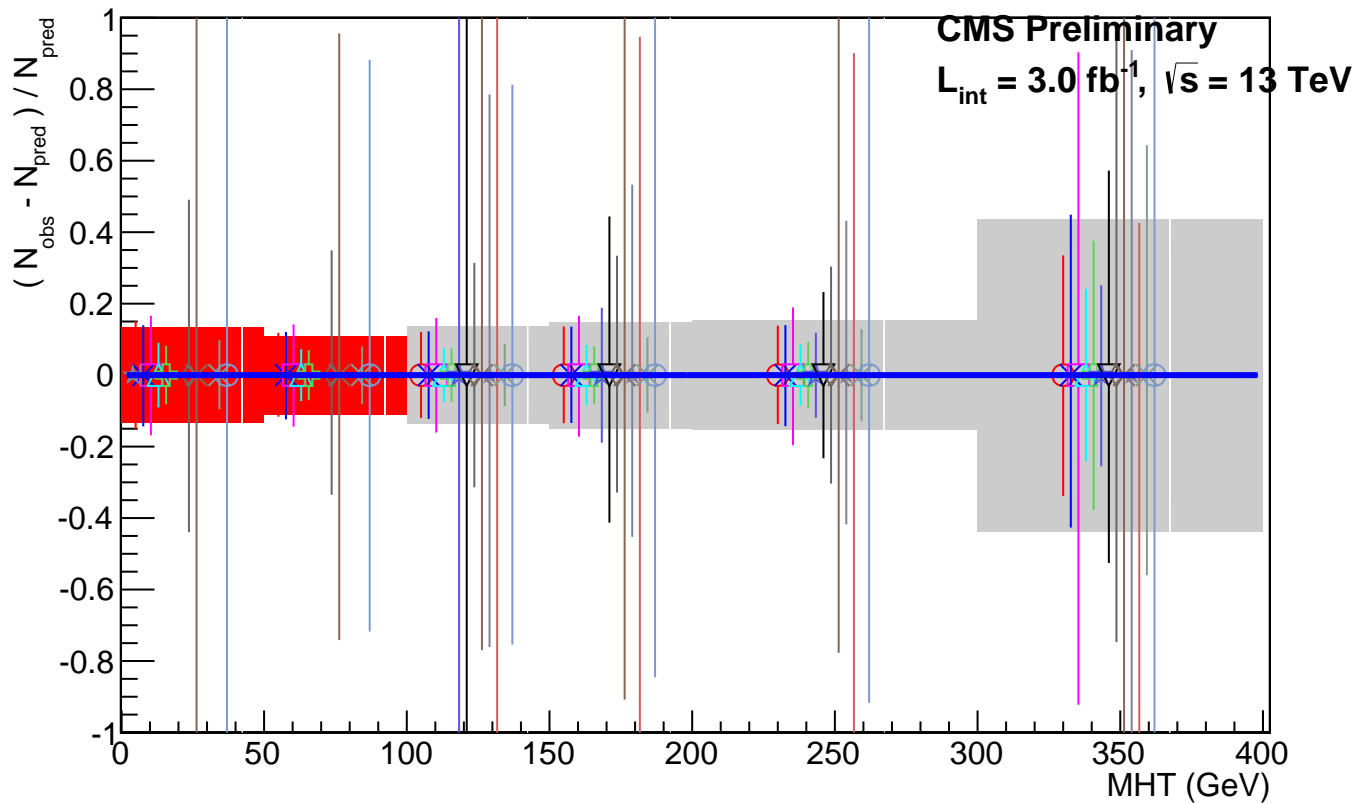
mht40_pt_nJet40_eq_4_ht40_ge_300.0_ht40_lt_350.0_Asym_0_eq4a



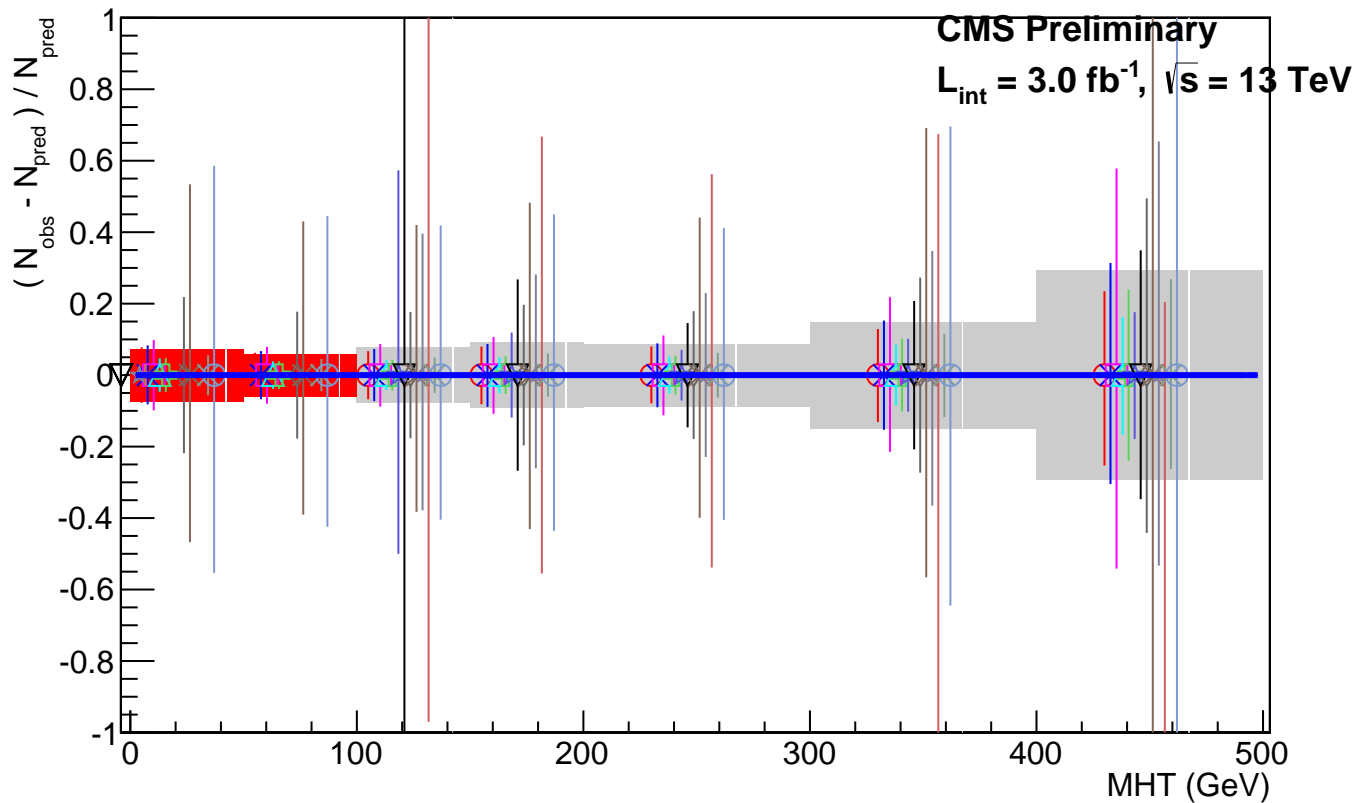
mht40_pt_nJet40_eq_4_ht40_ge_350.0_ht40_lt_400.0_0 eq4j



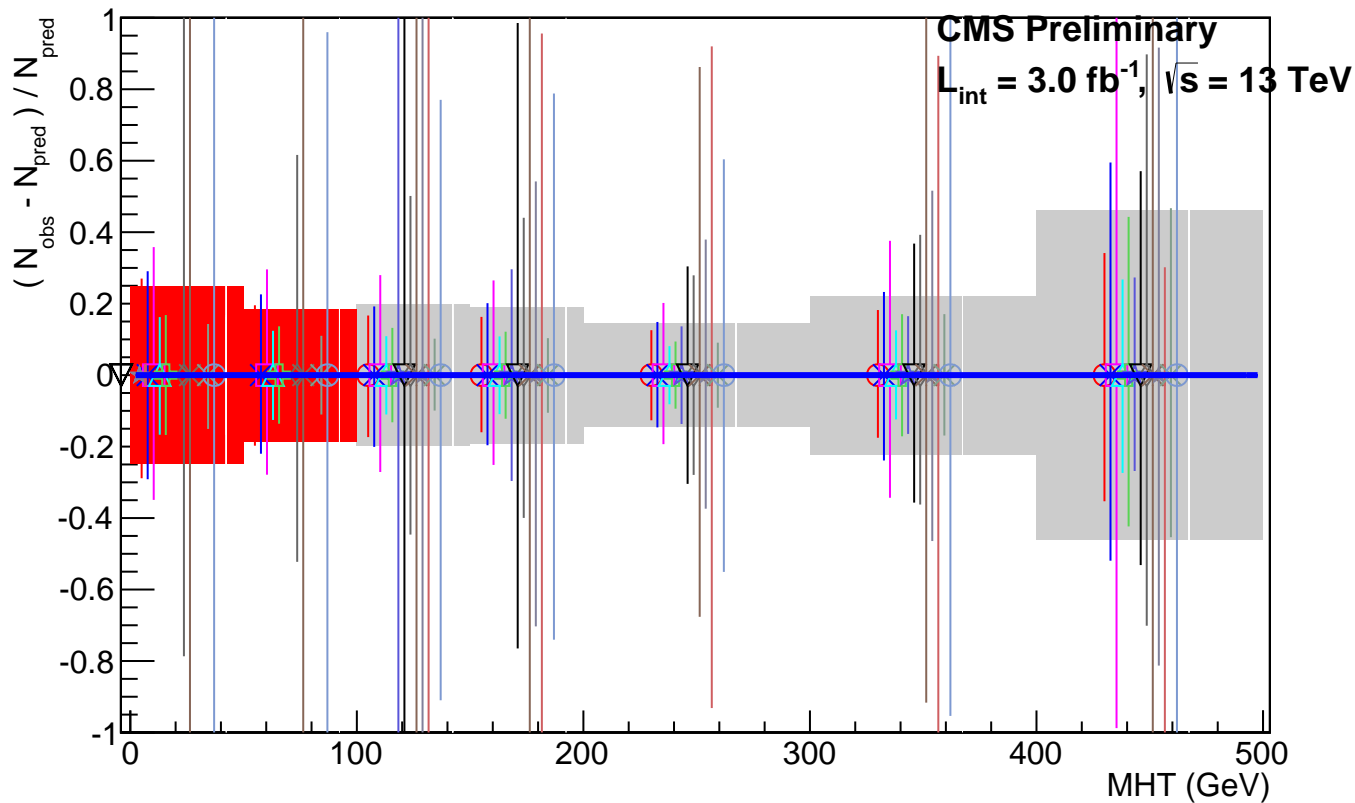
mht40_pt_nJet40_eq_4_ht40_ge_350.0_ht40_lt_400.0_Asym_0 eq4a



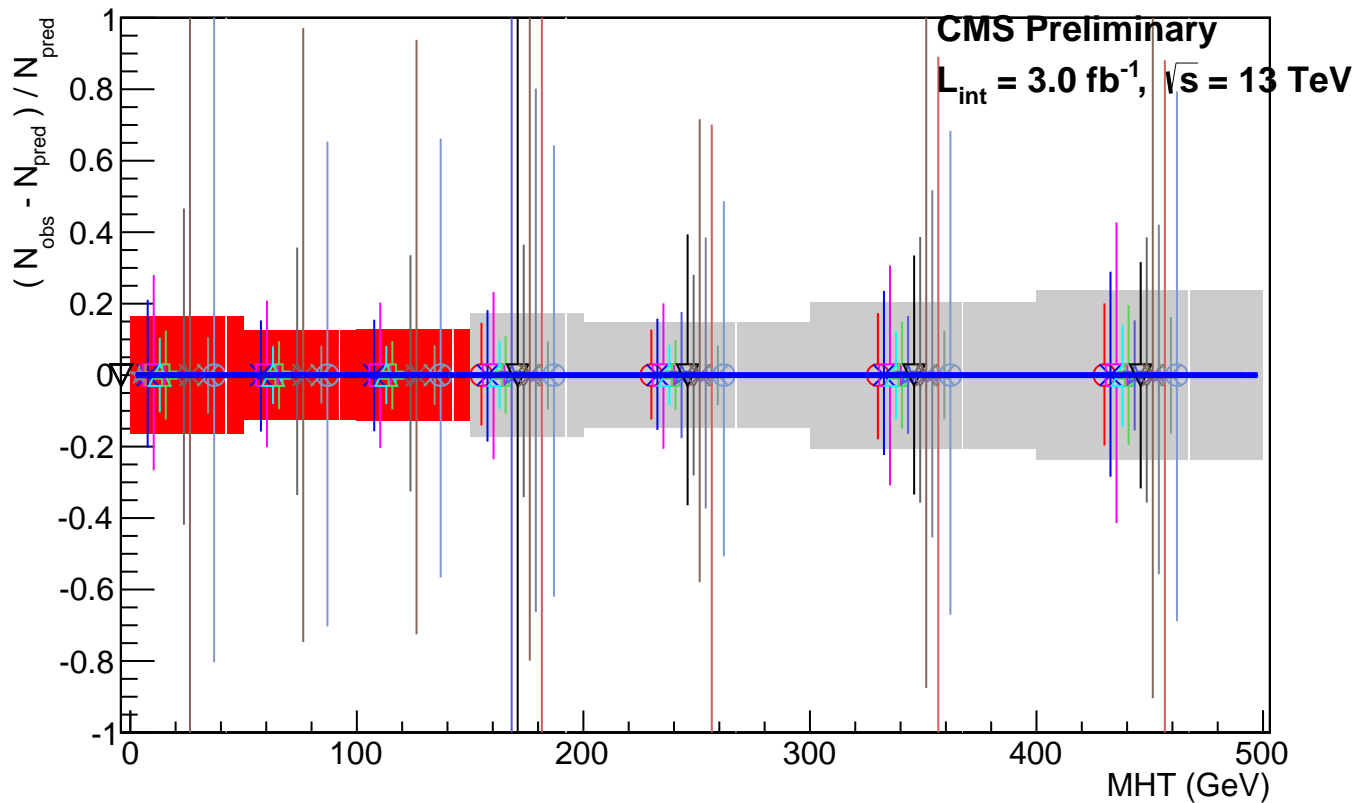
mht40_pt_nJet40_eq_4_ht40_ge_400.0_ht40_lt_600.0_0 eq4j



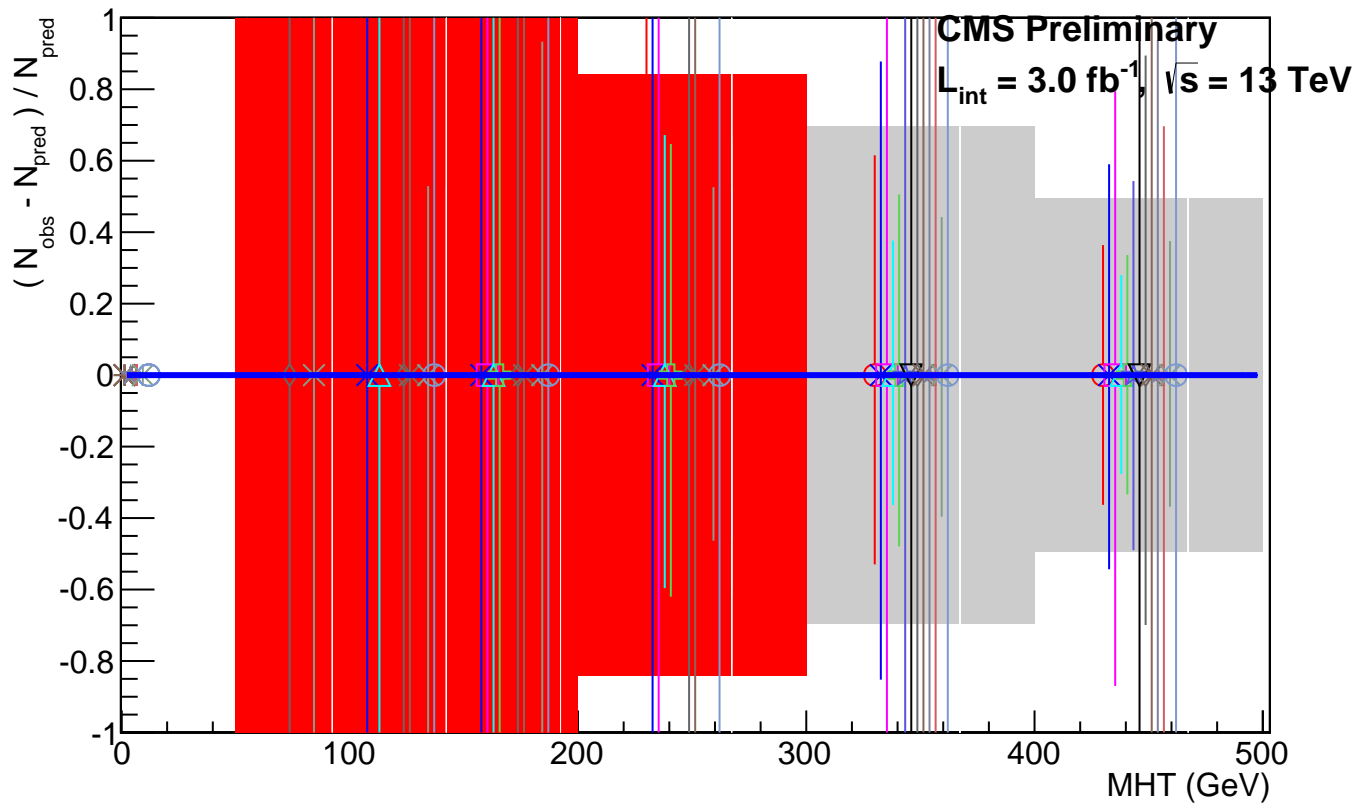
mht40_pt_nJet40_eq_4_ht40_ge_400.0_ht40_lt_600.0_Asym_0_eq4a



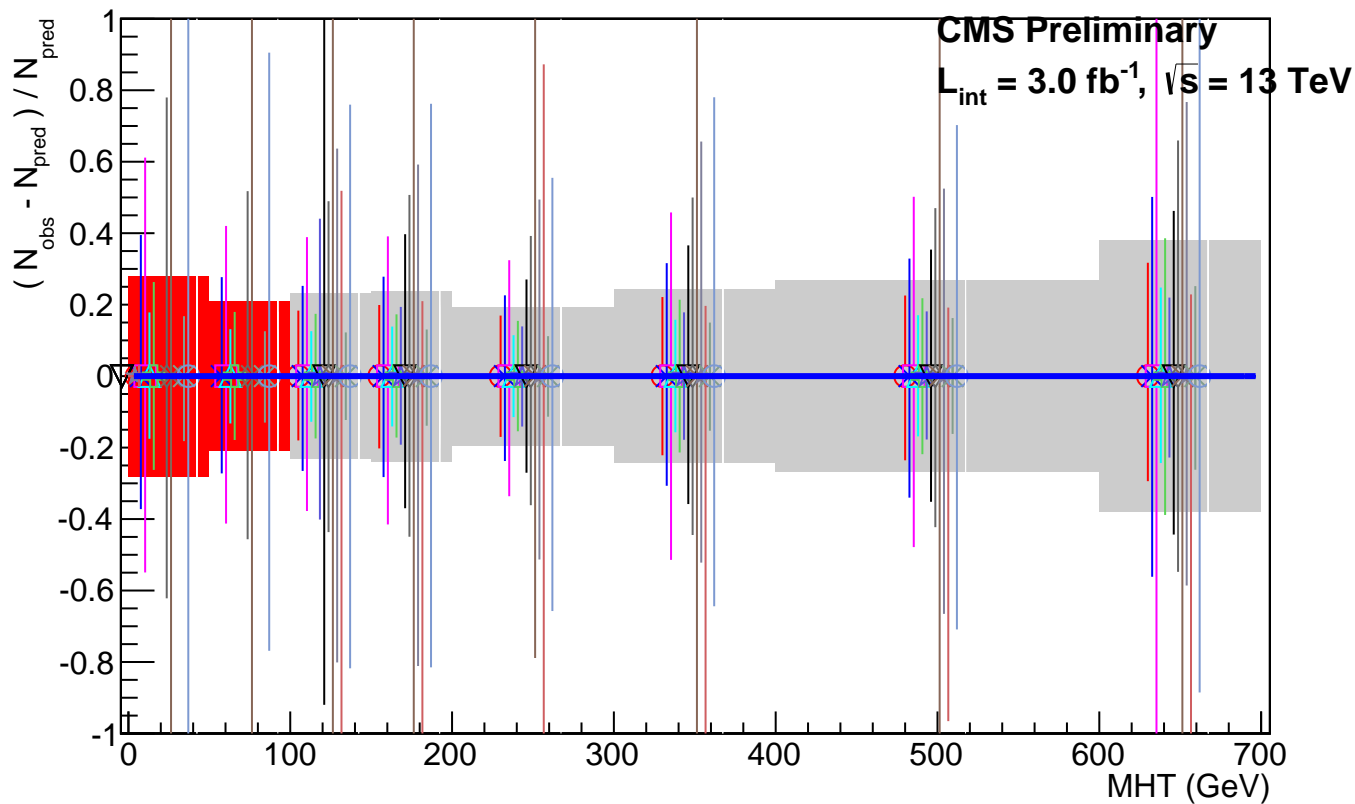
mht40_pt_nJet40_eq_4_ht40_ge_600.0_ht40_lt_800.0_0 eq4j

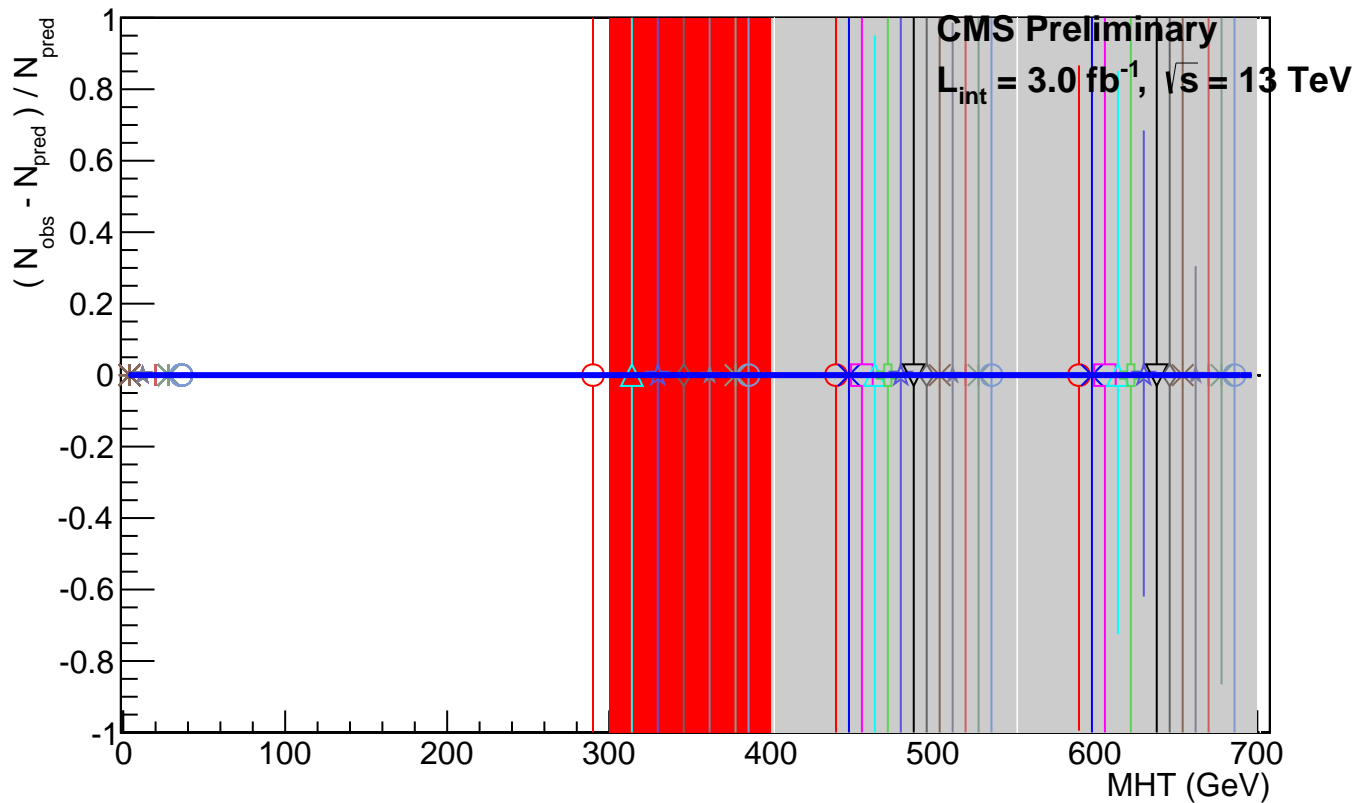


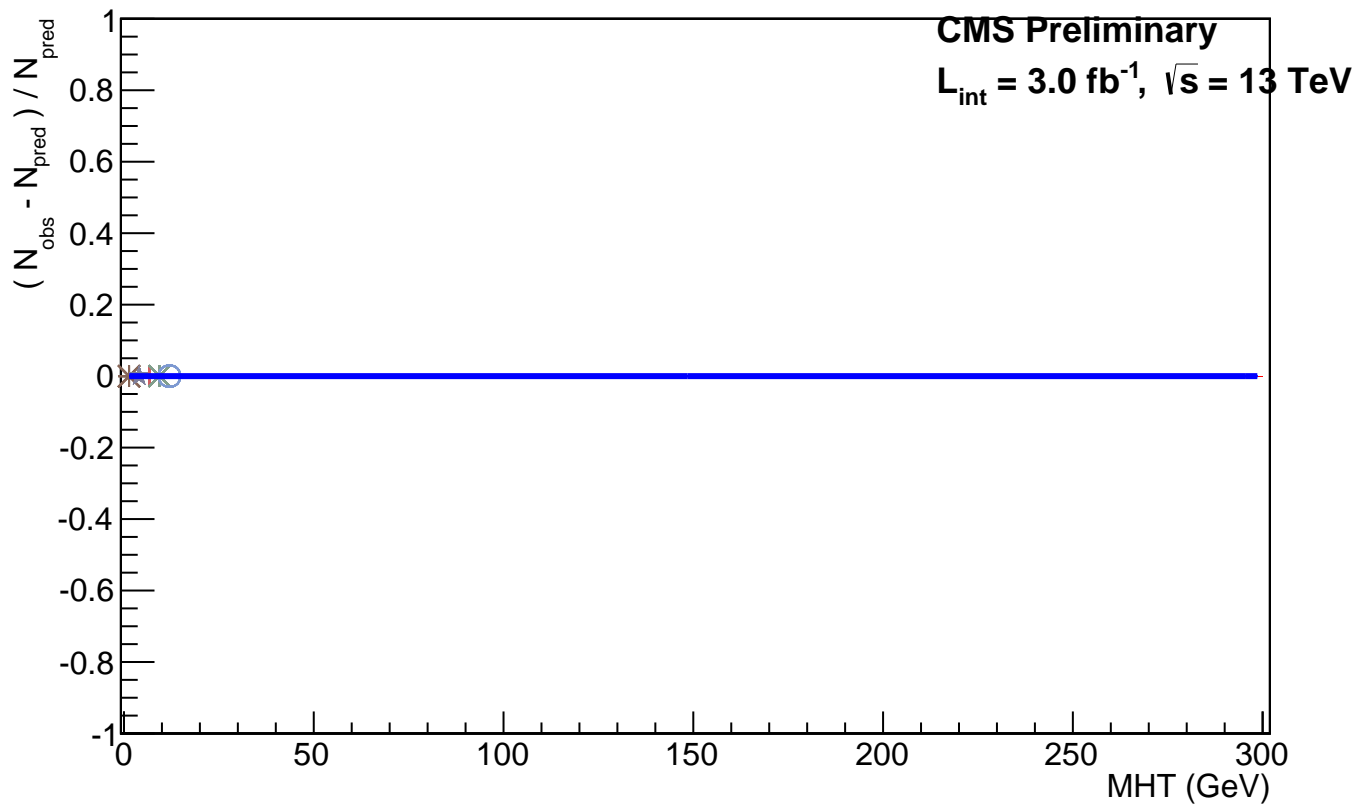
mht40_pt_nJet40_eq_4_ht40_ge_600.0_ht40_lt_800.0_Asym_0 eq4a

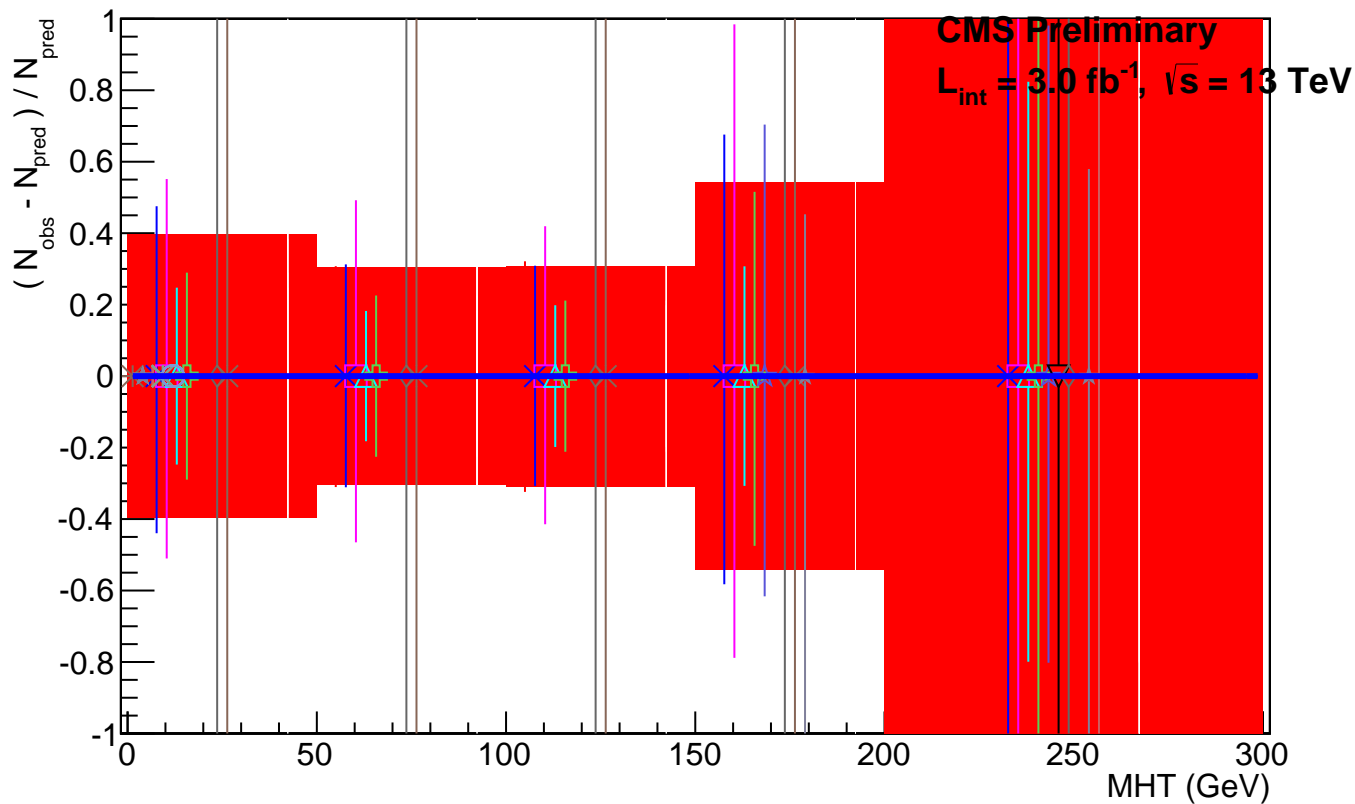


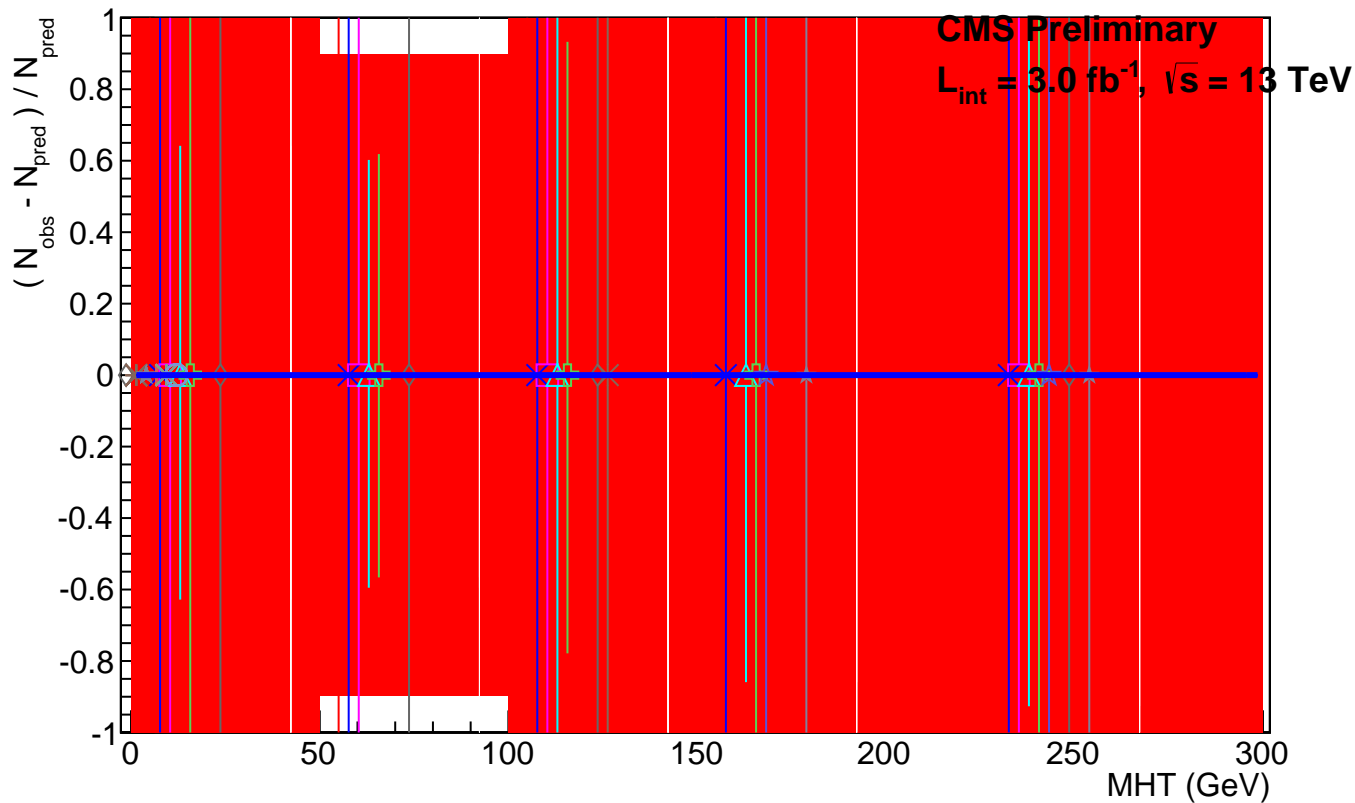
mht40_pt_nJet40_eq_4_ht40_ge_800.0_ht40_lt_99999.0_0 eq4j

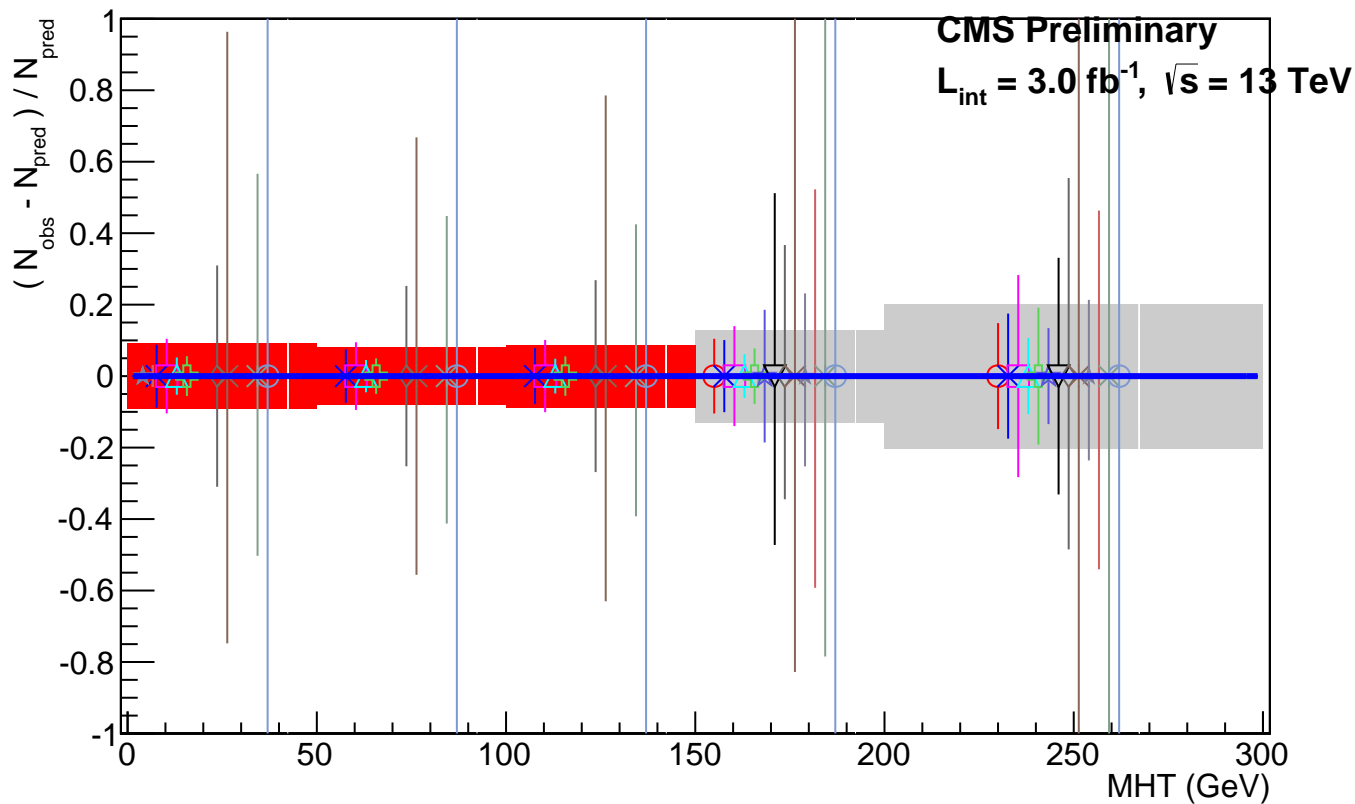


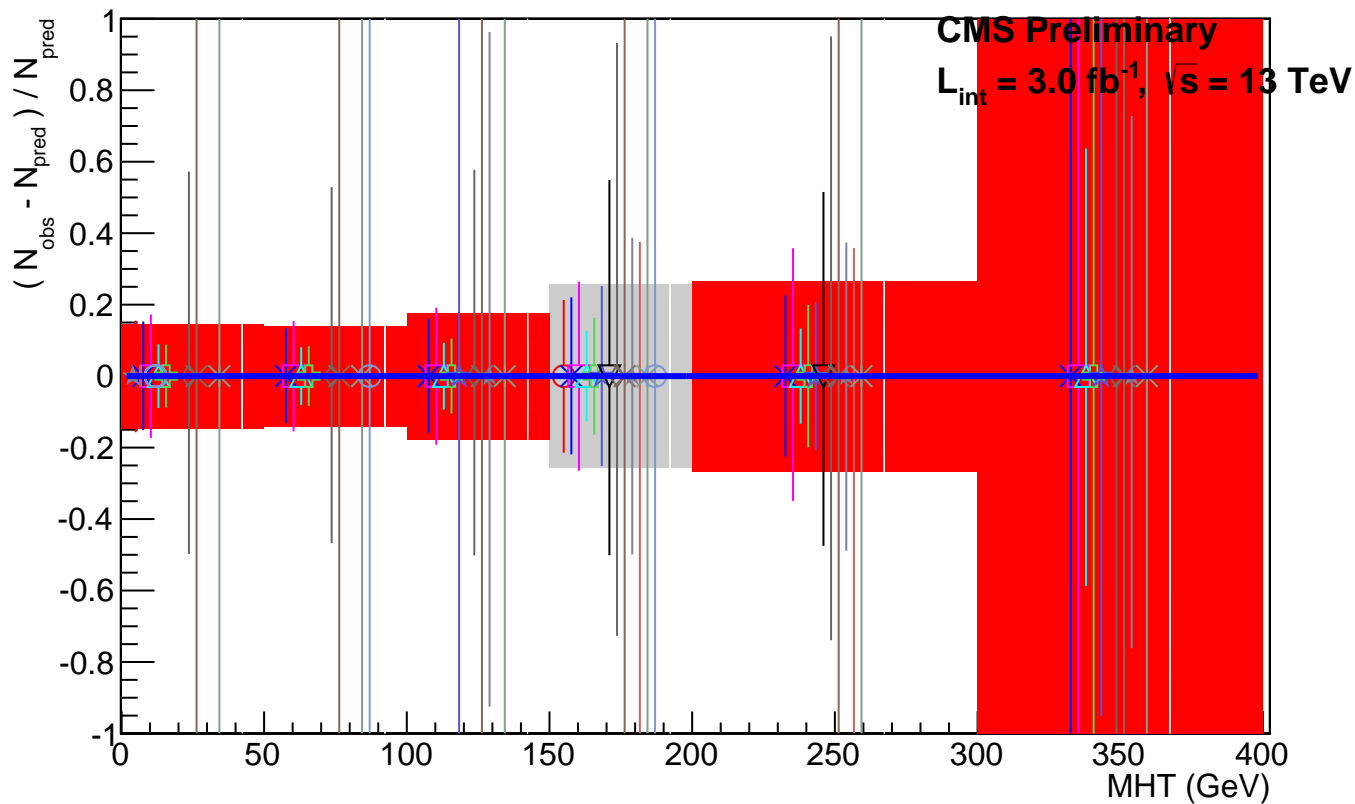


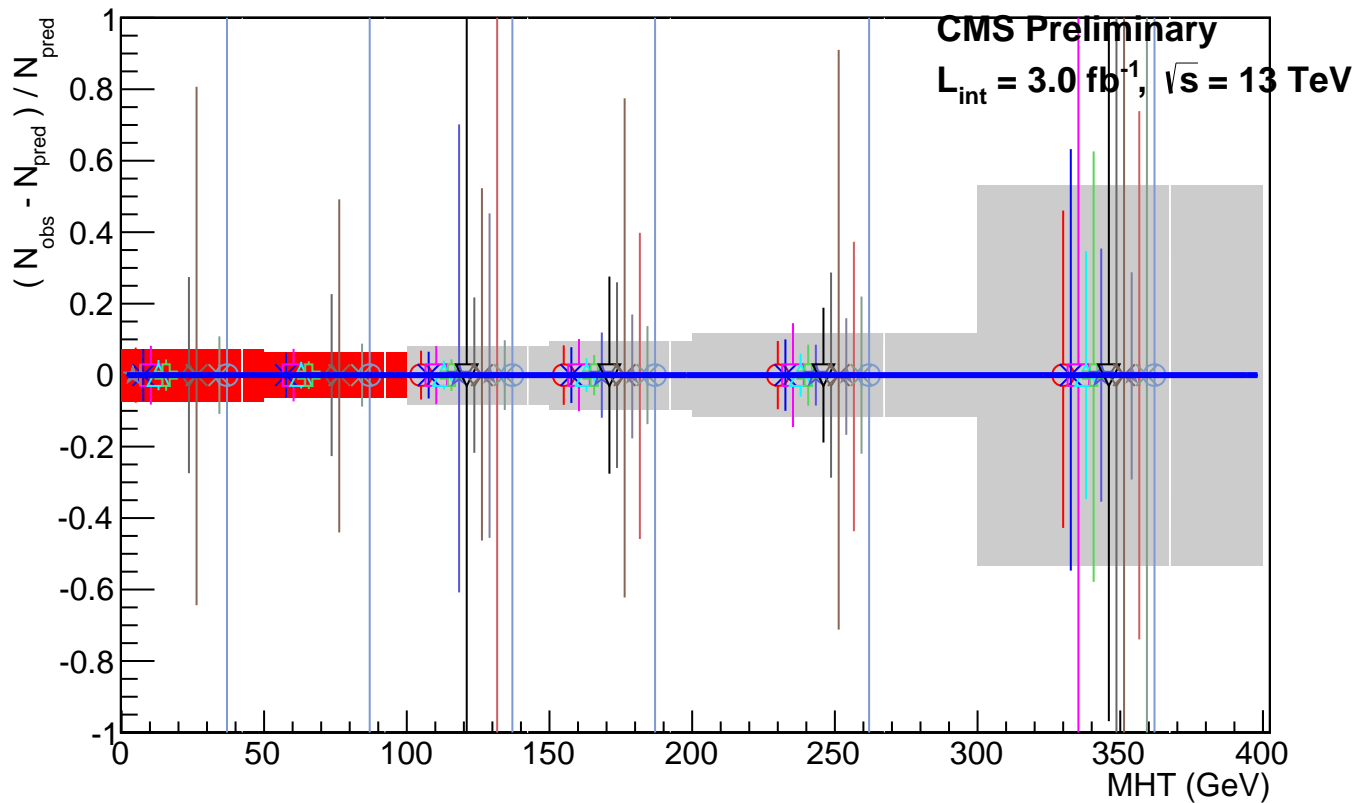




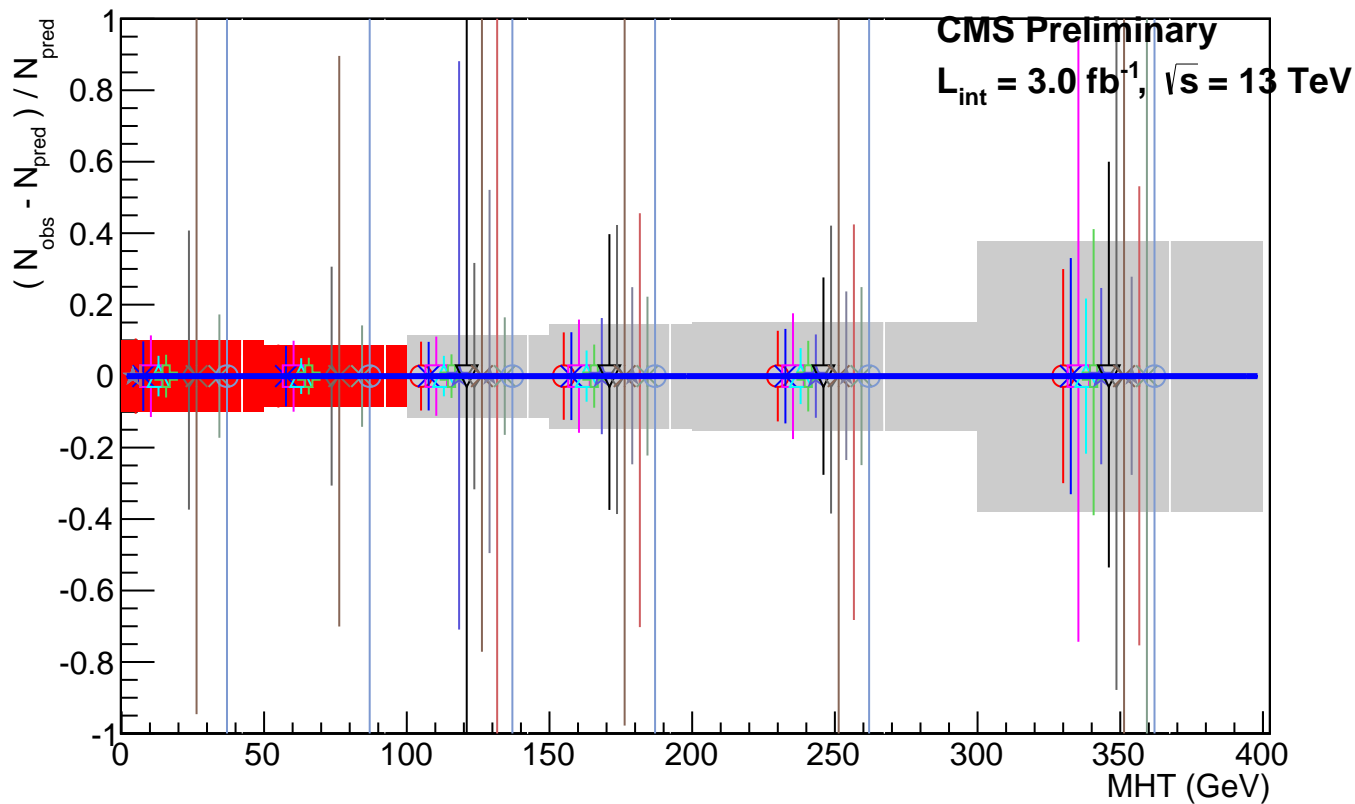


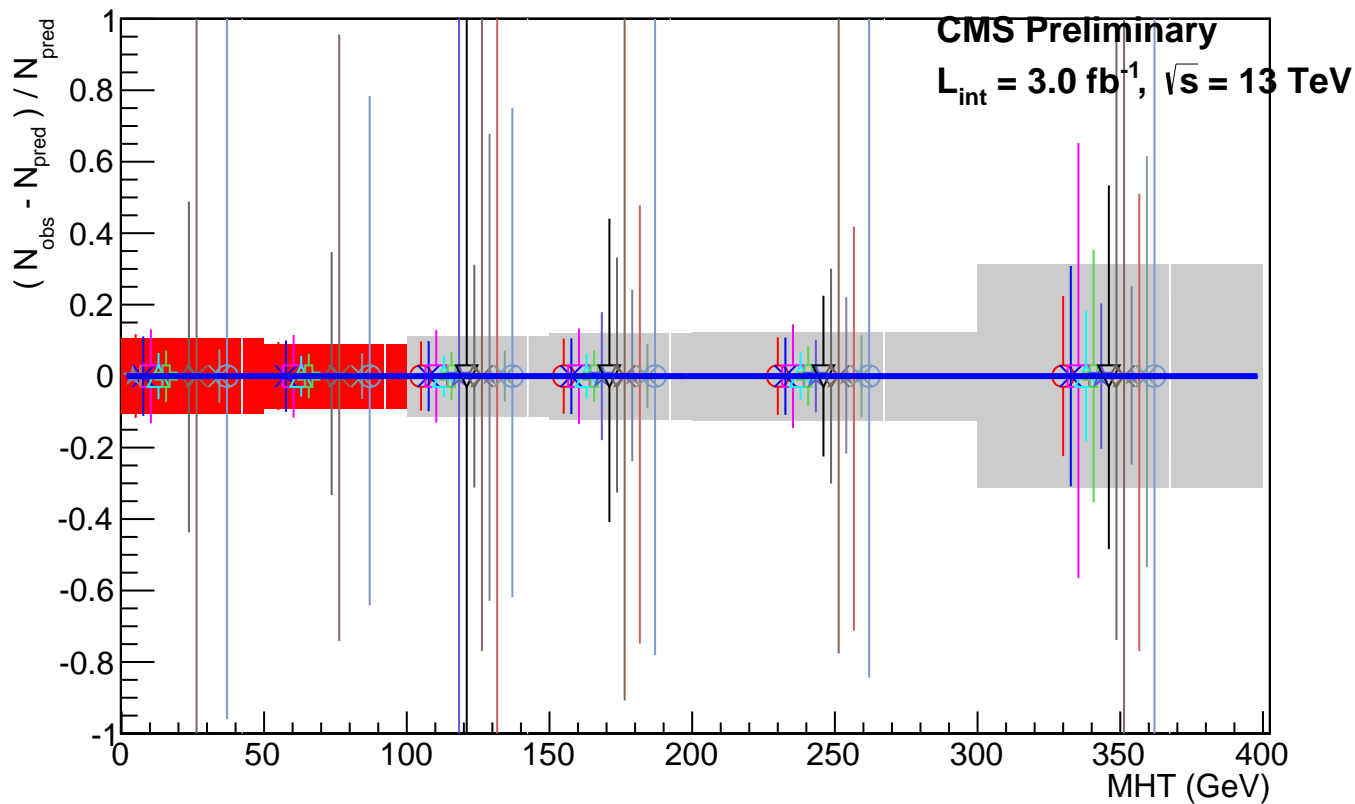


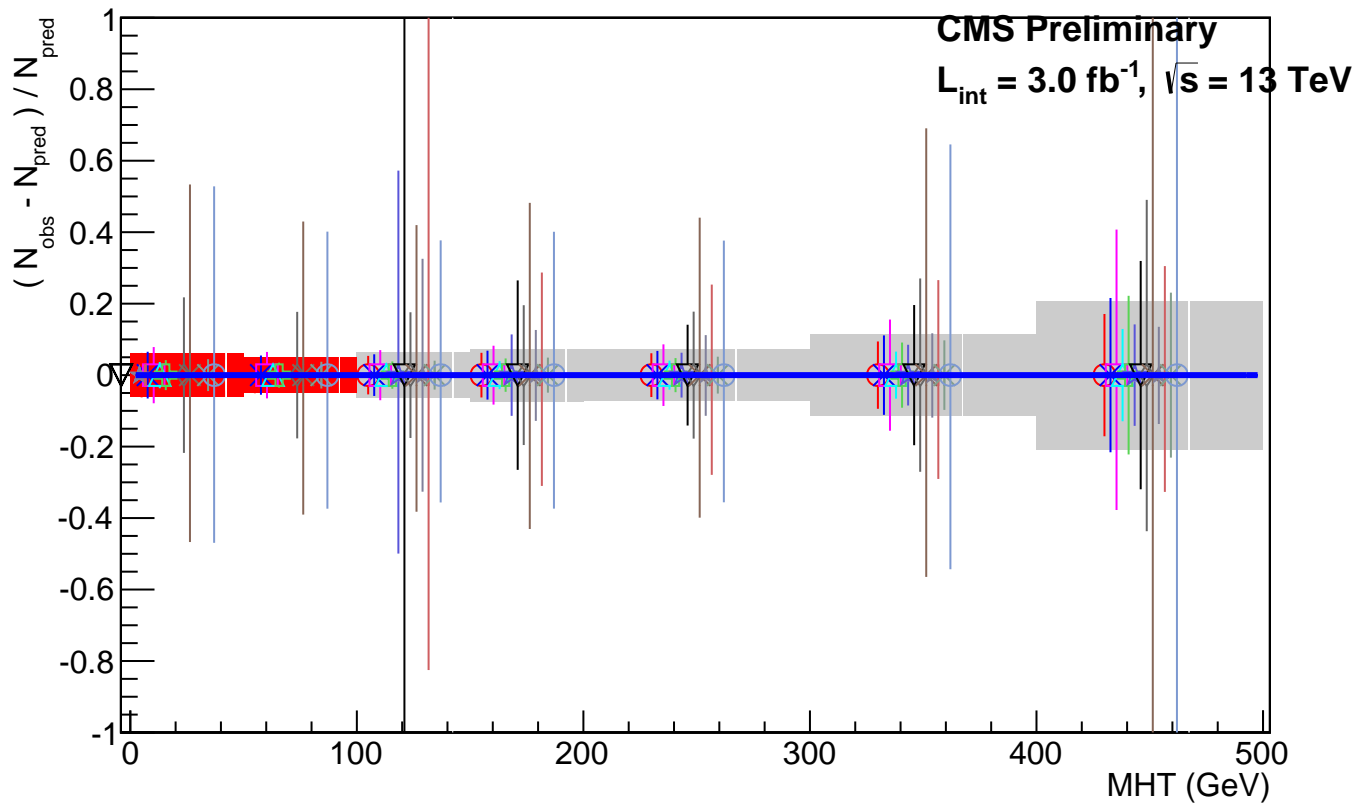


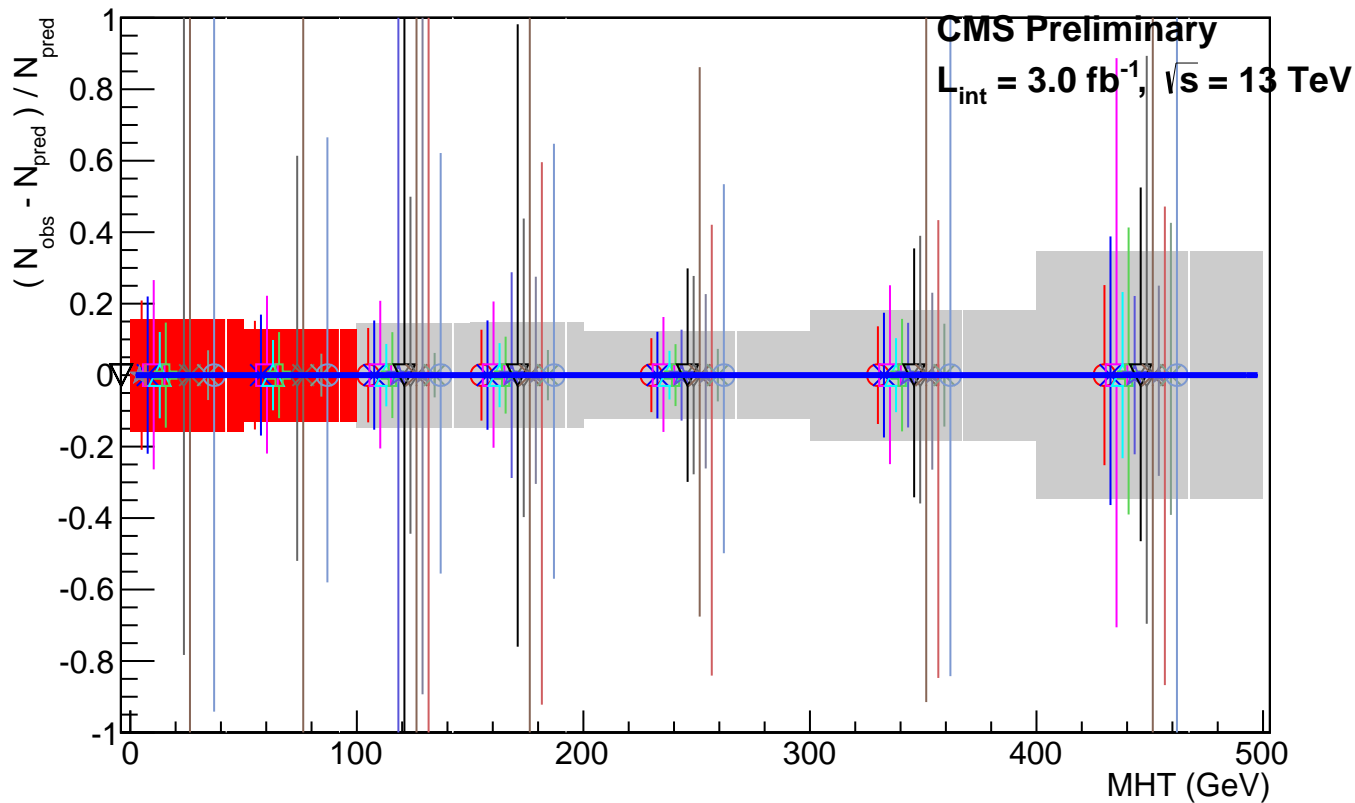


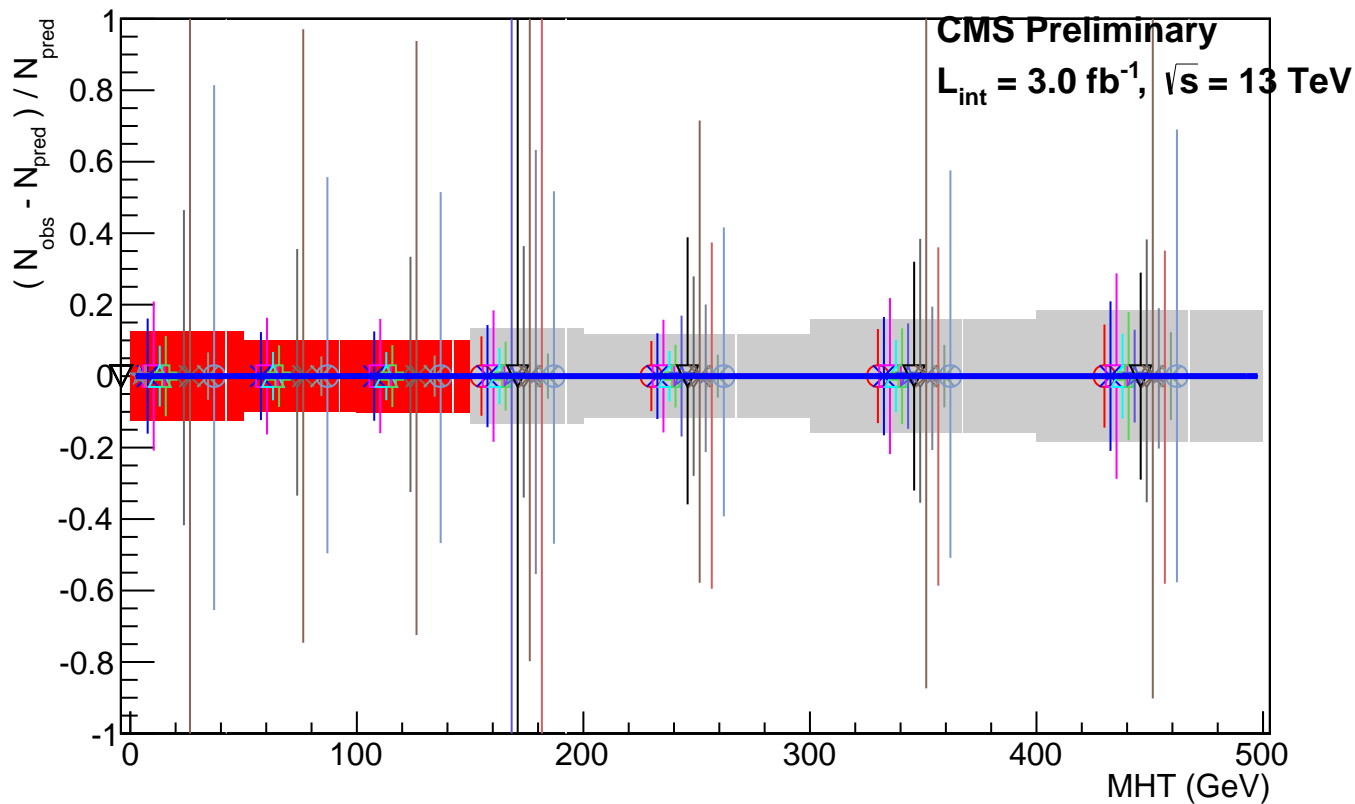
mht40_pt_nJet40_eq_4_ht40_ge_350.0_ht40_lt_400.0_0_Integrated eq4j_Integrated

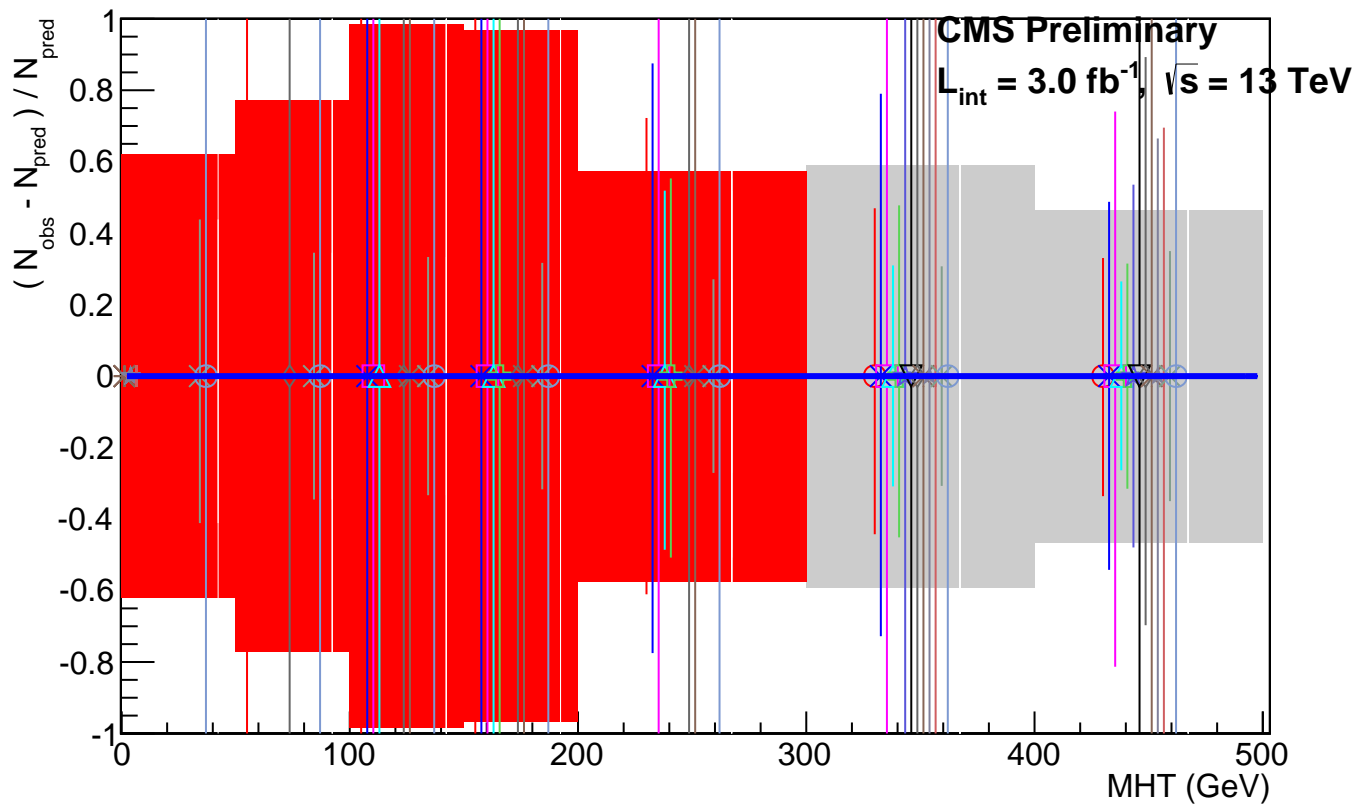


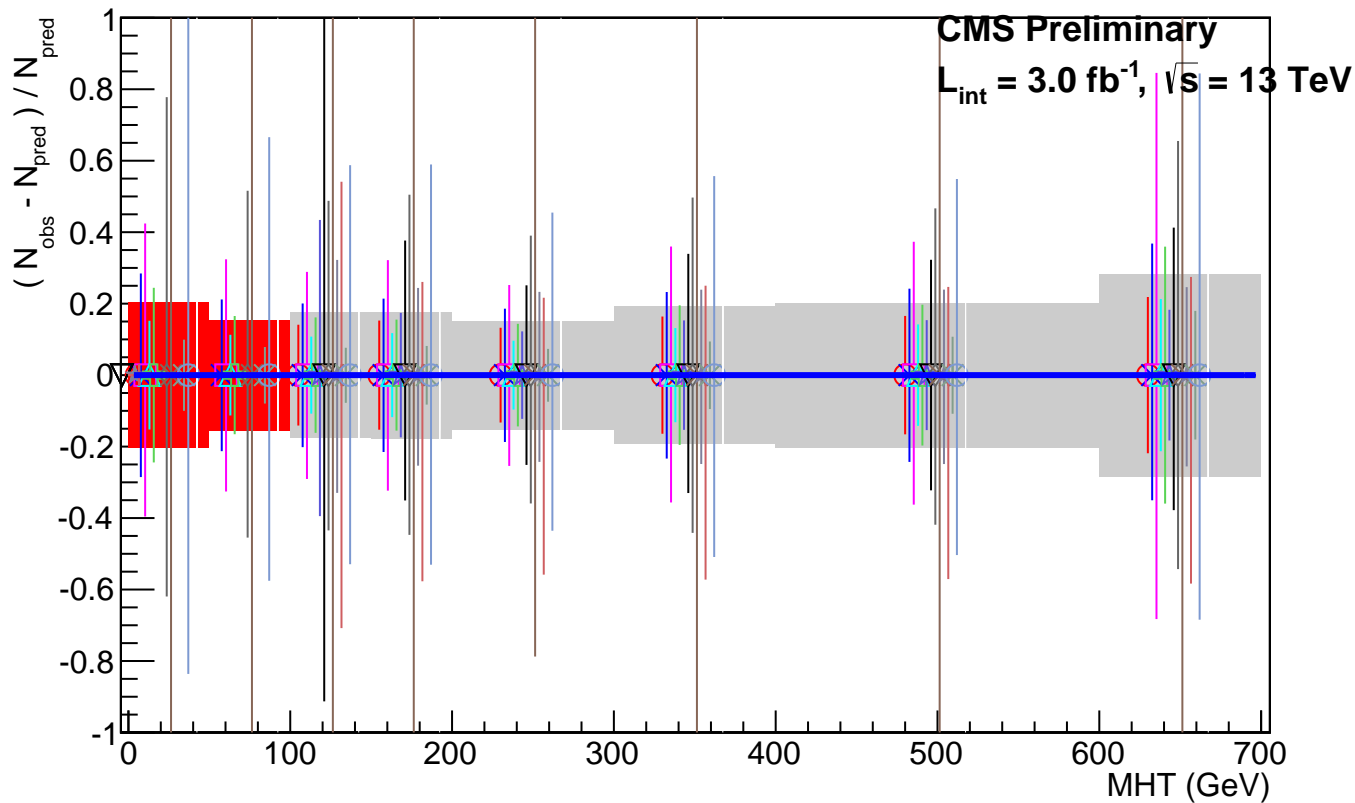


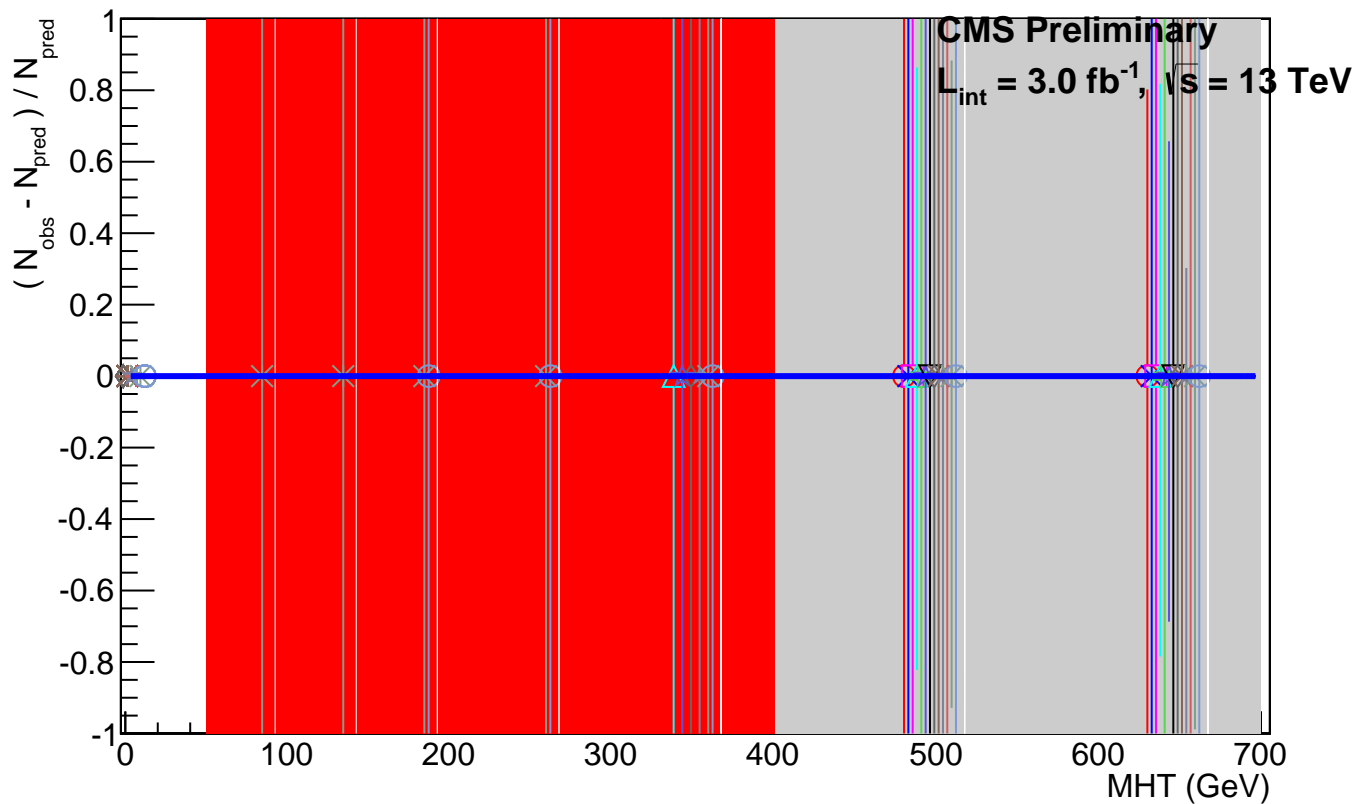




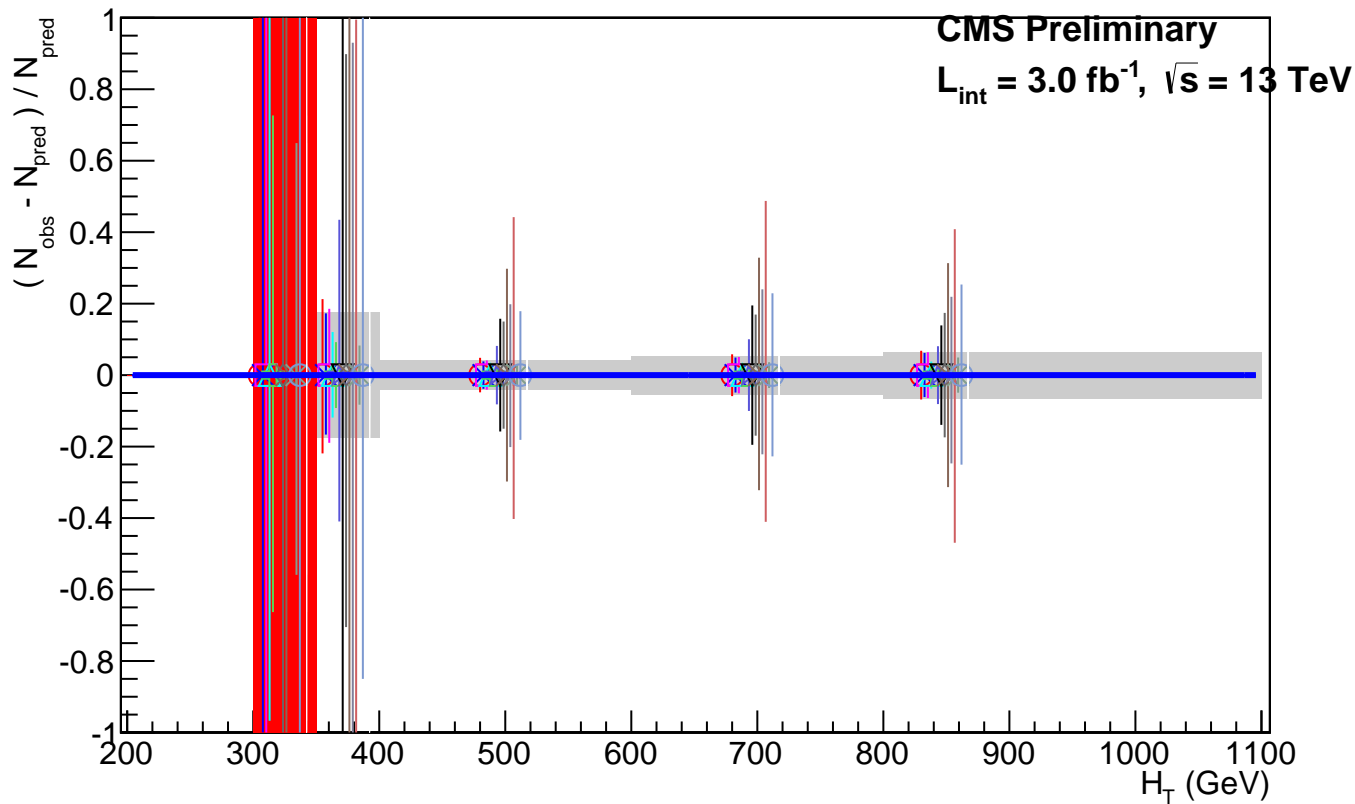




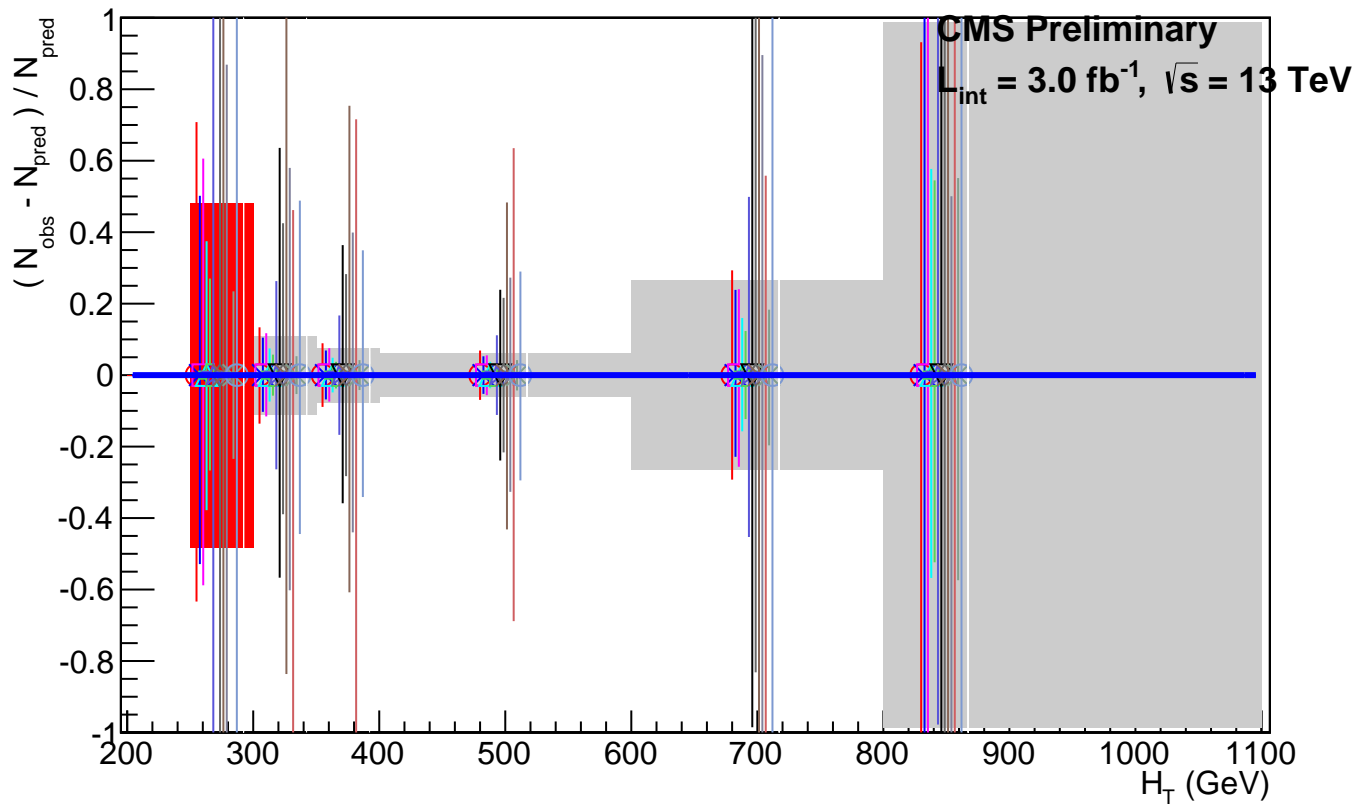




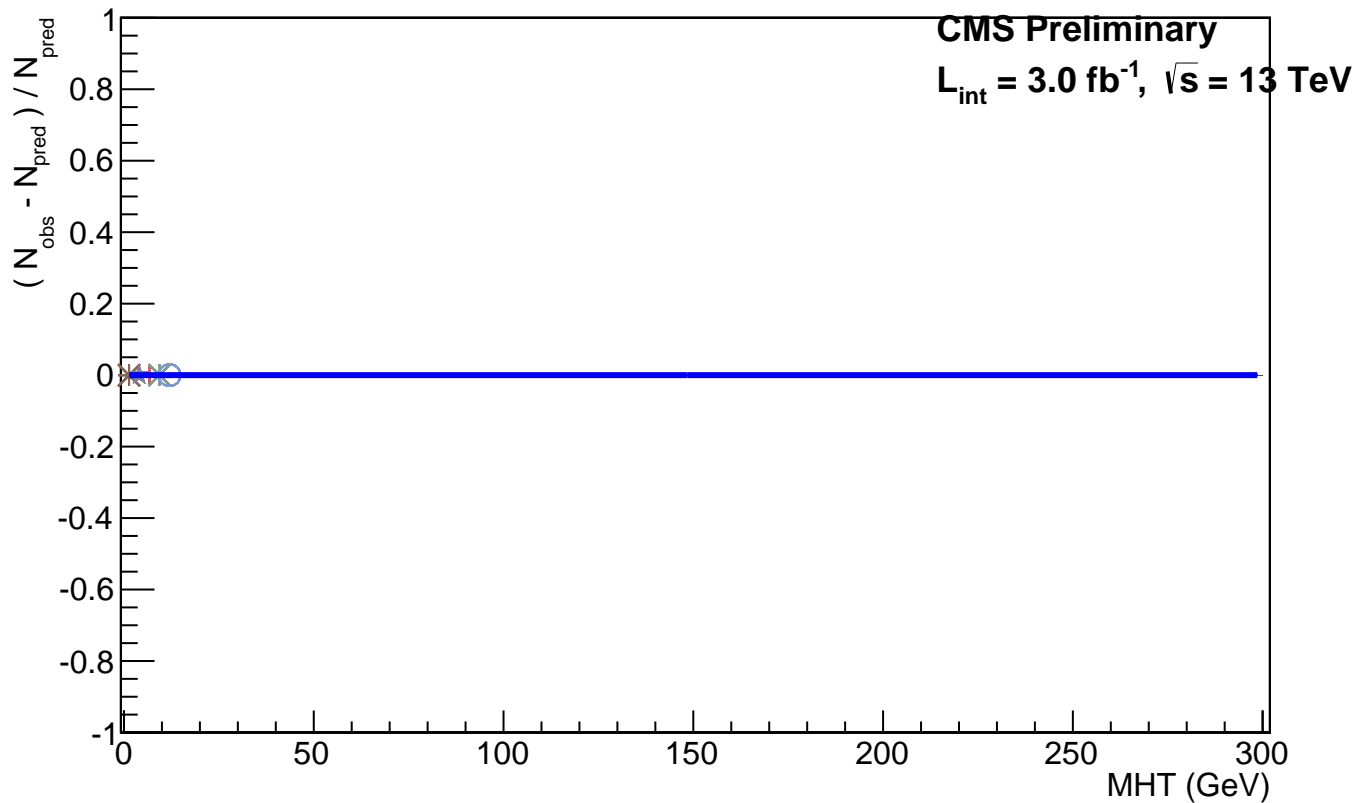
ht40_nJet40_ge_5_0 ge5j



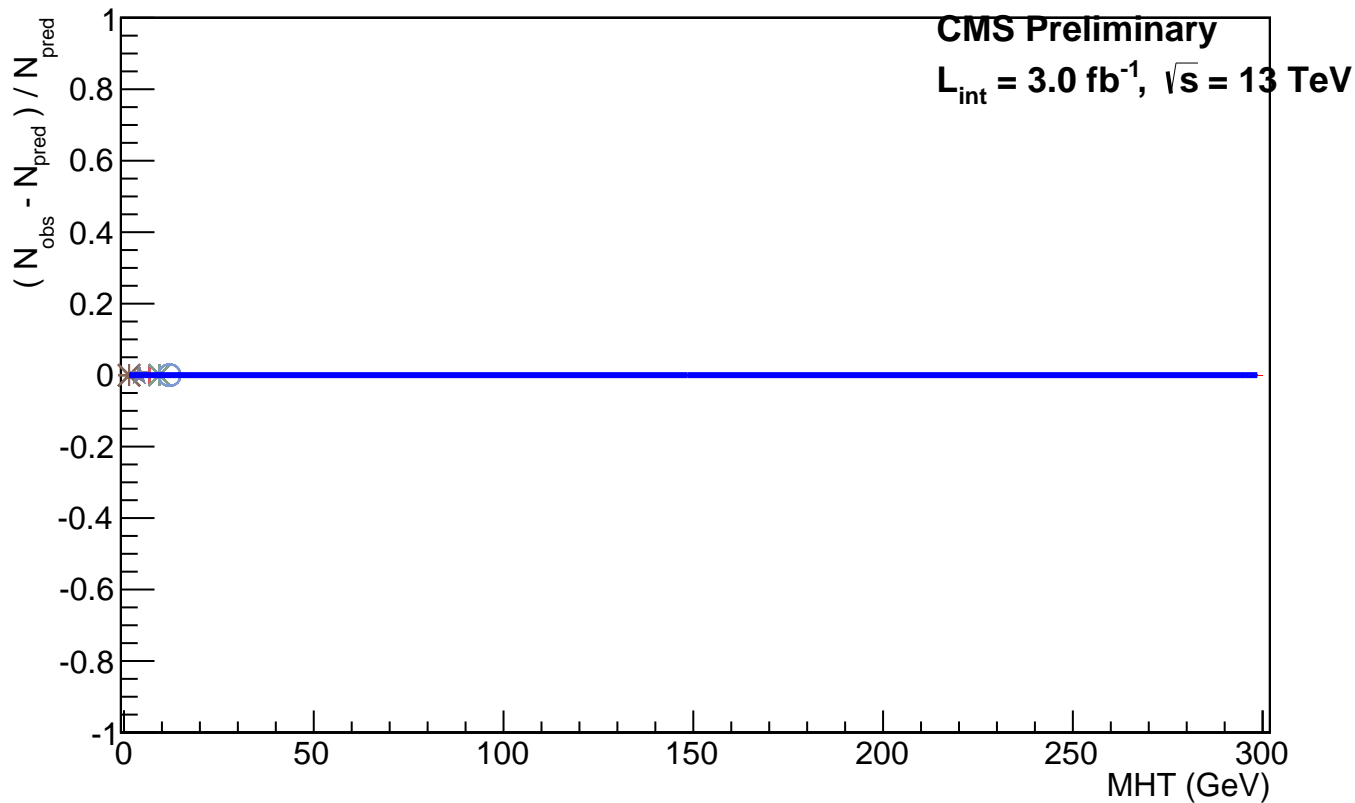
ht40_nJet40_ge_5_Asym_0_ge5a



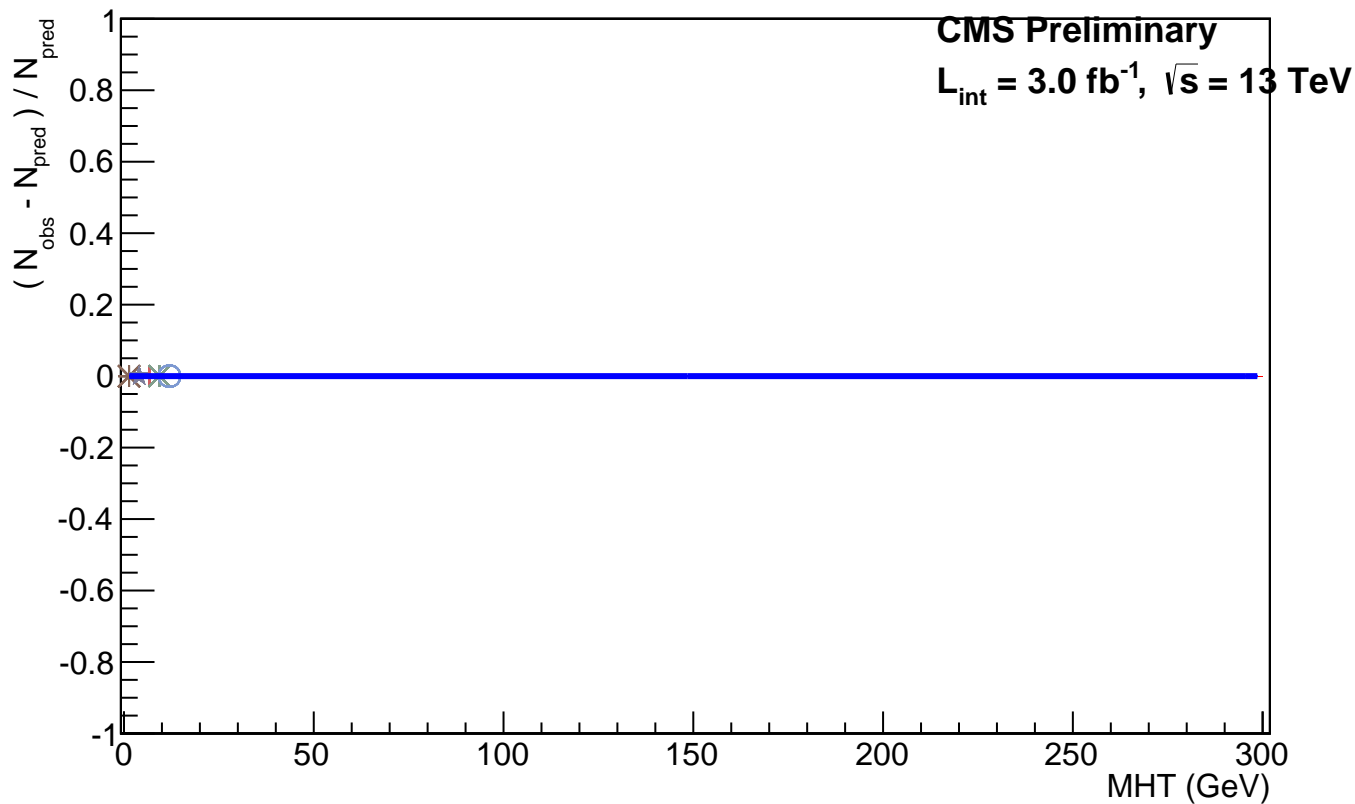
mht40_pt_nJet40_ge_5_ht40_ge_200.0_ht40_lt_250.0_0 ge5j



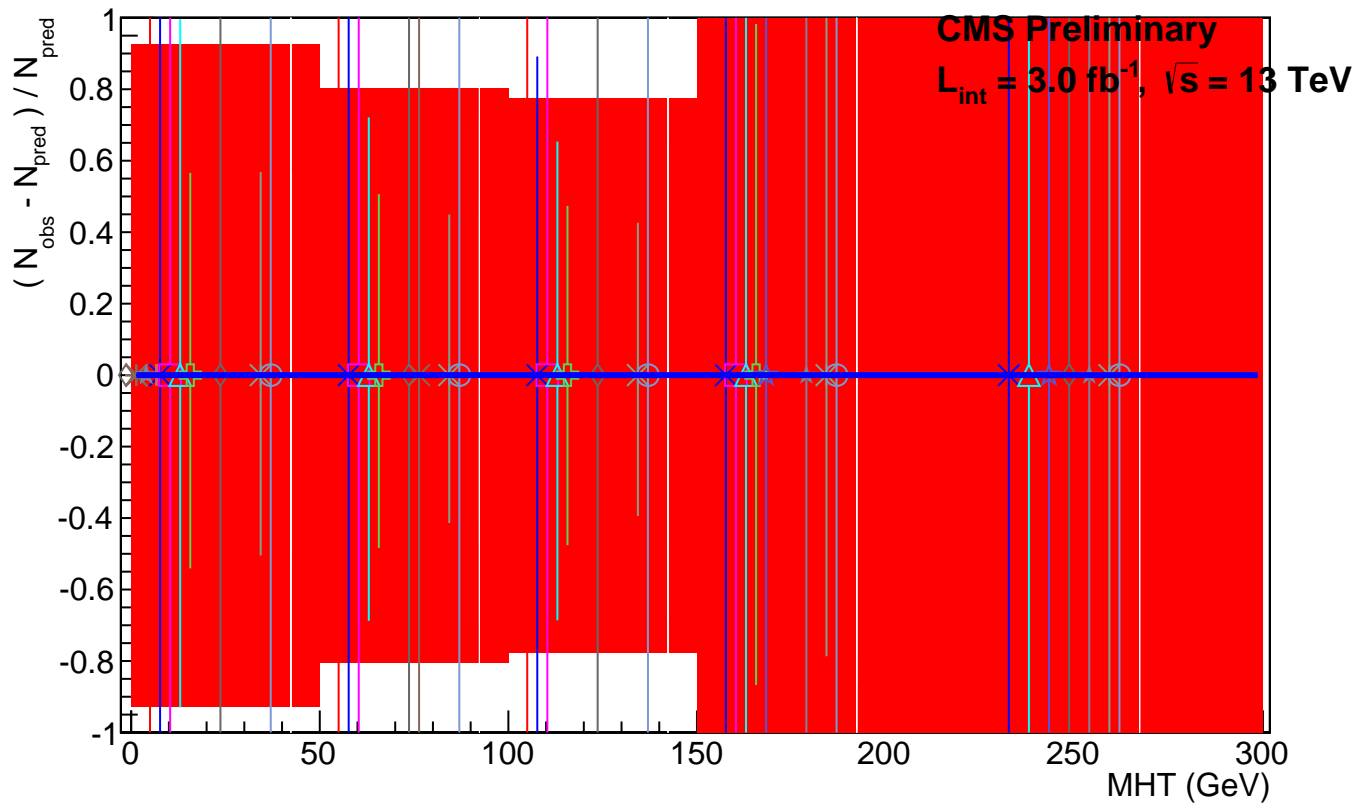
mht40_pt_nJet40_ge_5_ht40_ge_200.0_ht40_lt_250.0_Asym_0 ge5a



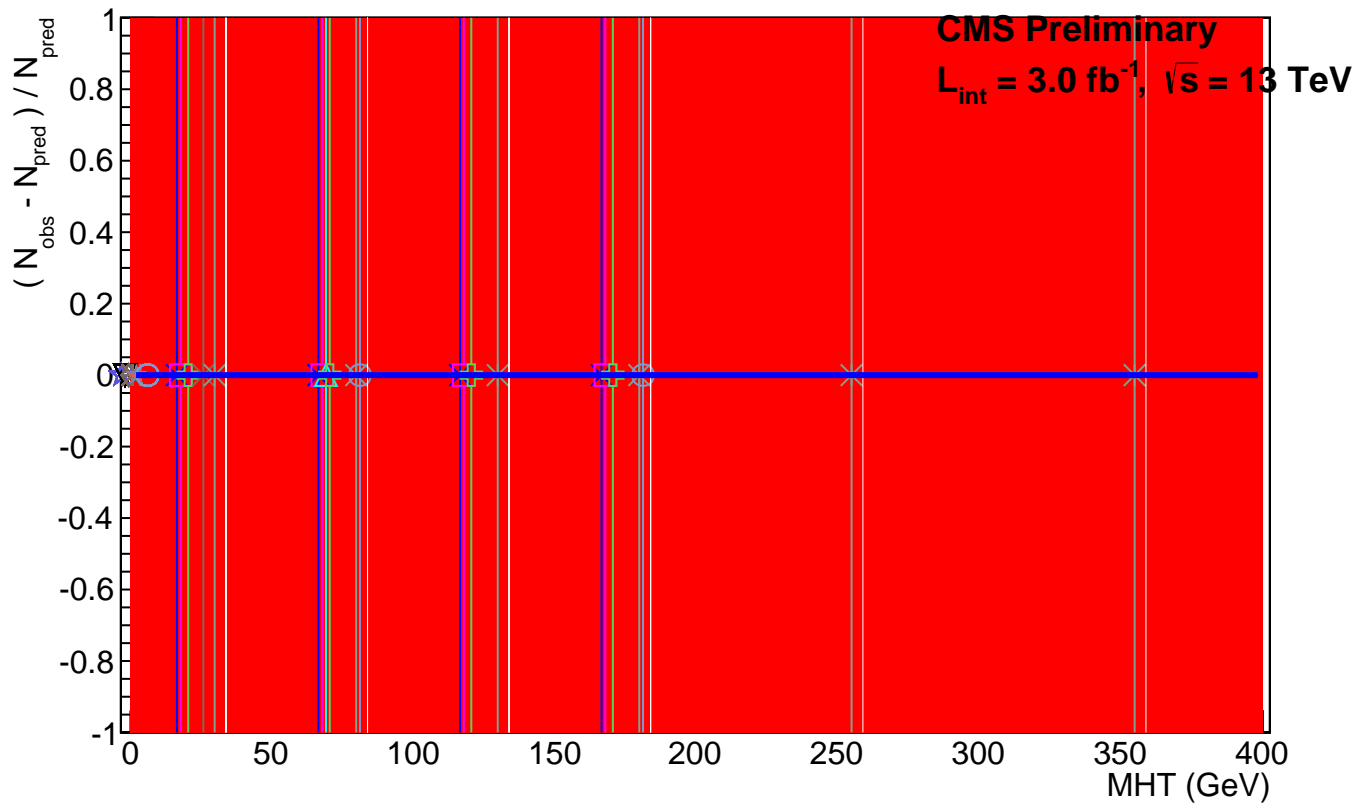
mht40_pt_nJet40_ge_5_ht40_ge_250.0_ht40_lt_300.0_0 ge5j



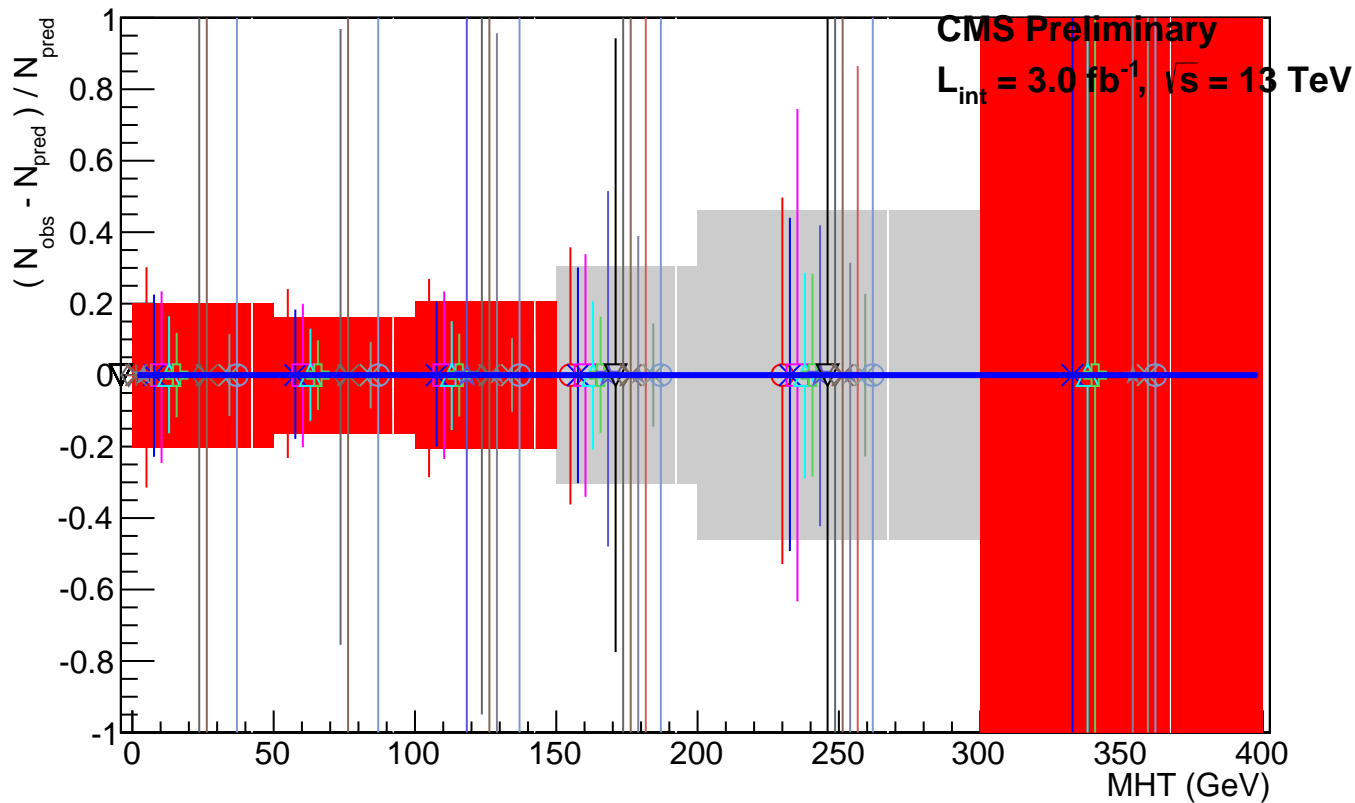
mht40_pt_nJet40_ge_5_ht40_ge_250.0_ht40_lt_300.0_Asym_0_ge5a



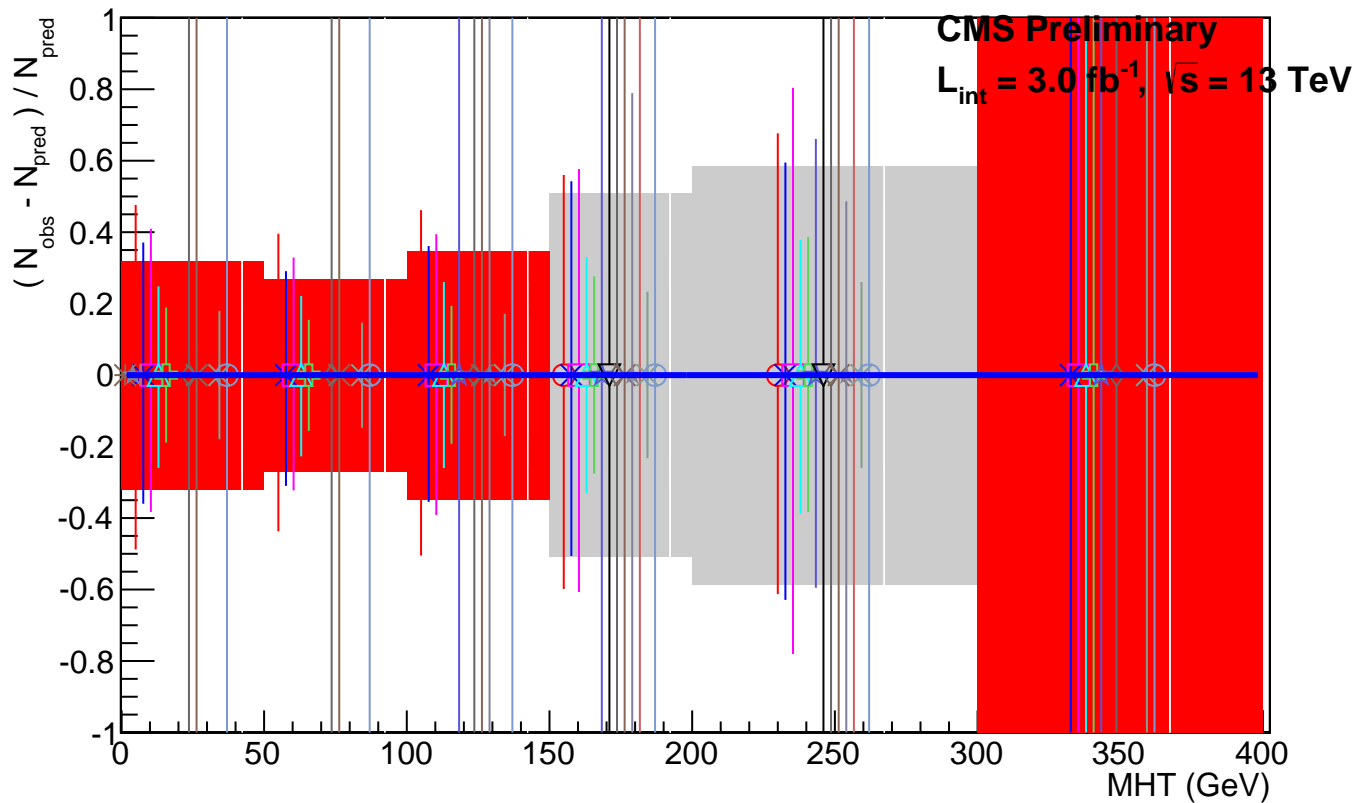
mht40_pt_nJet40_ge_5_ht40_ge_300.0_ht40_lt_350.0_0 ge5j



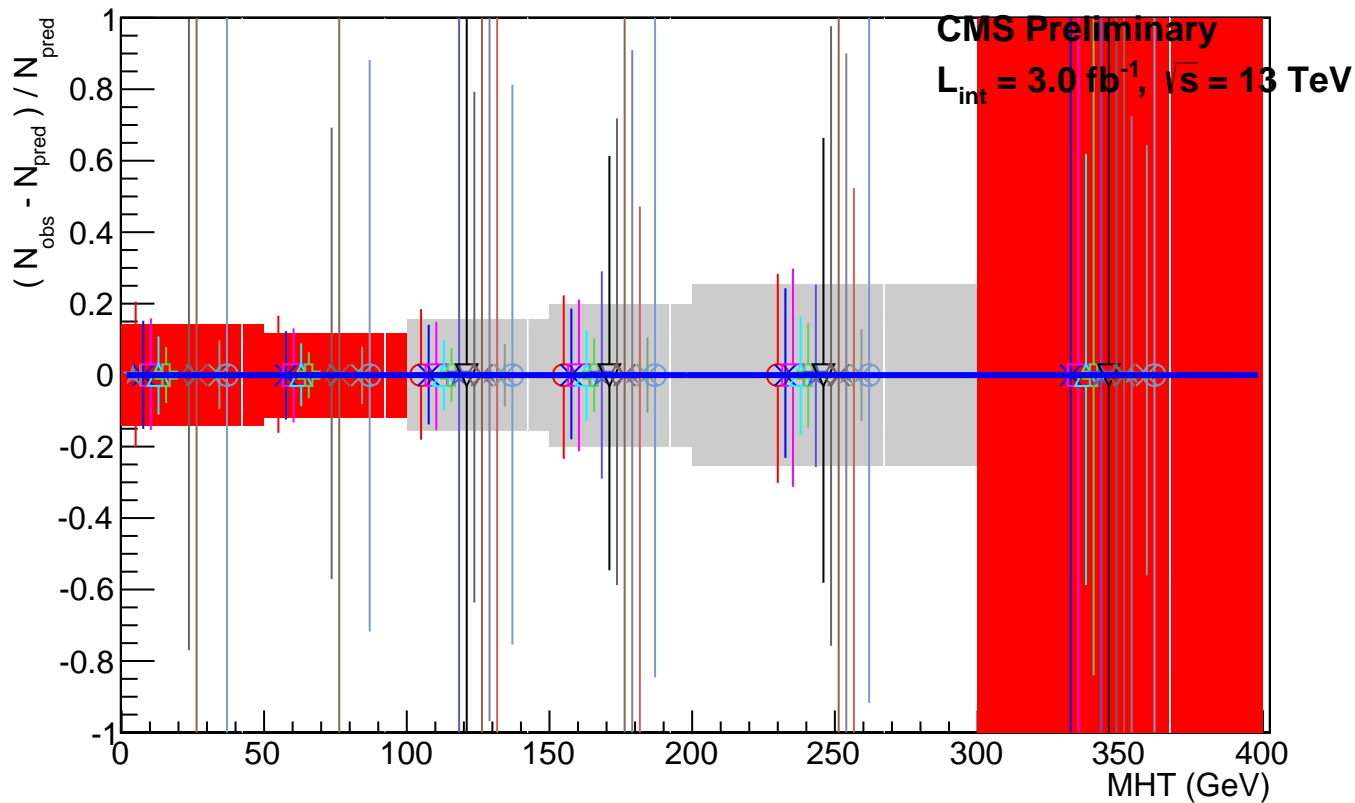
mht40_pt_nJet40_ge_5_ht40_ge_300.0_ht40_lt_350.0_Asym_0 ge5a



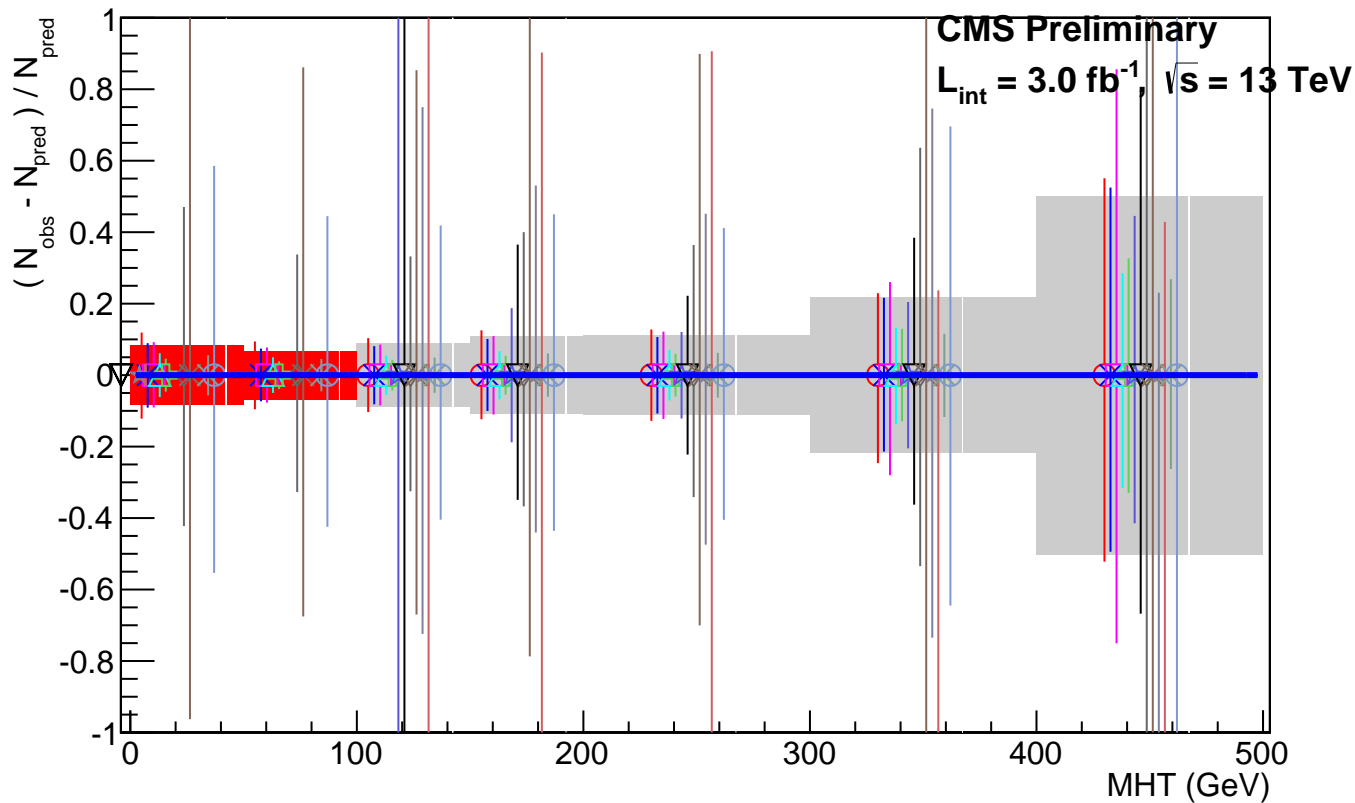
mht40_pt_nJet40_ge_5_ht40_ge_350.0_ht40_lt_400.0_0 ge5j



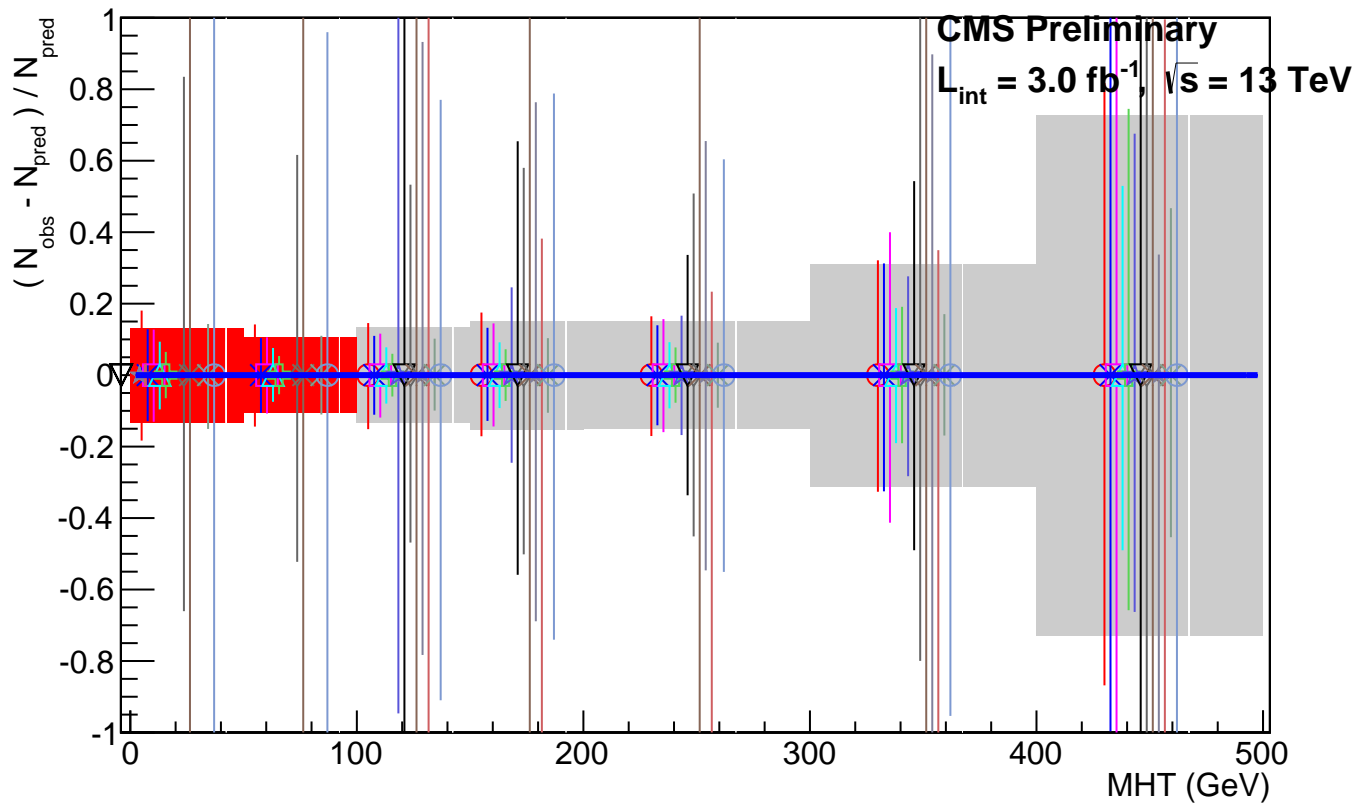
mht40_pt_nJet40_ge_5_ht40_ge_350.0_ht40_lt_400.0_Asym_0 ge5a



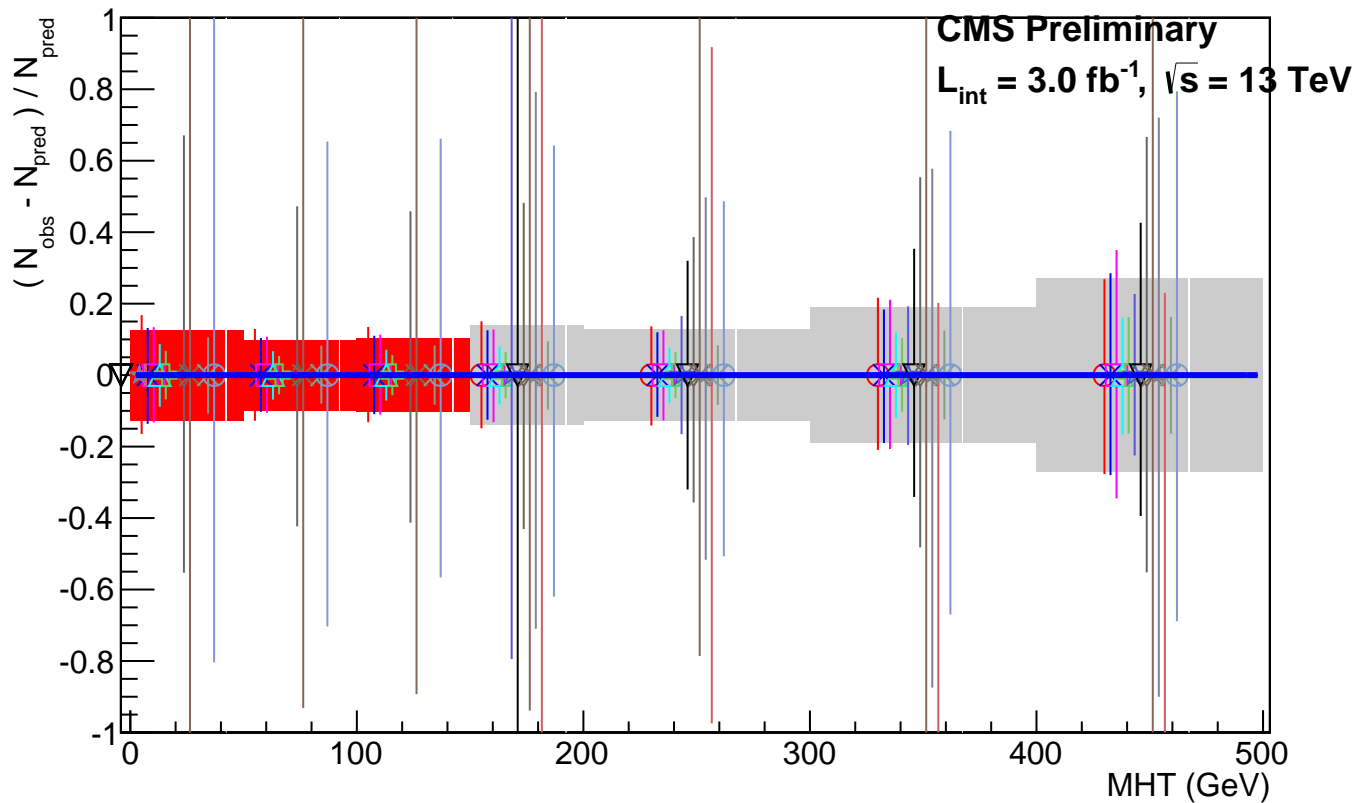
mht40_pt_nJet40_ge_5_ht40_ge_400.0_ht40_lt_600.0_0 ge5j



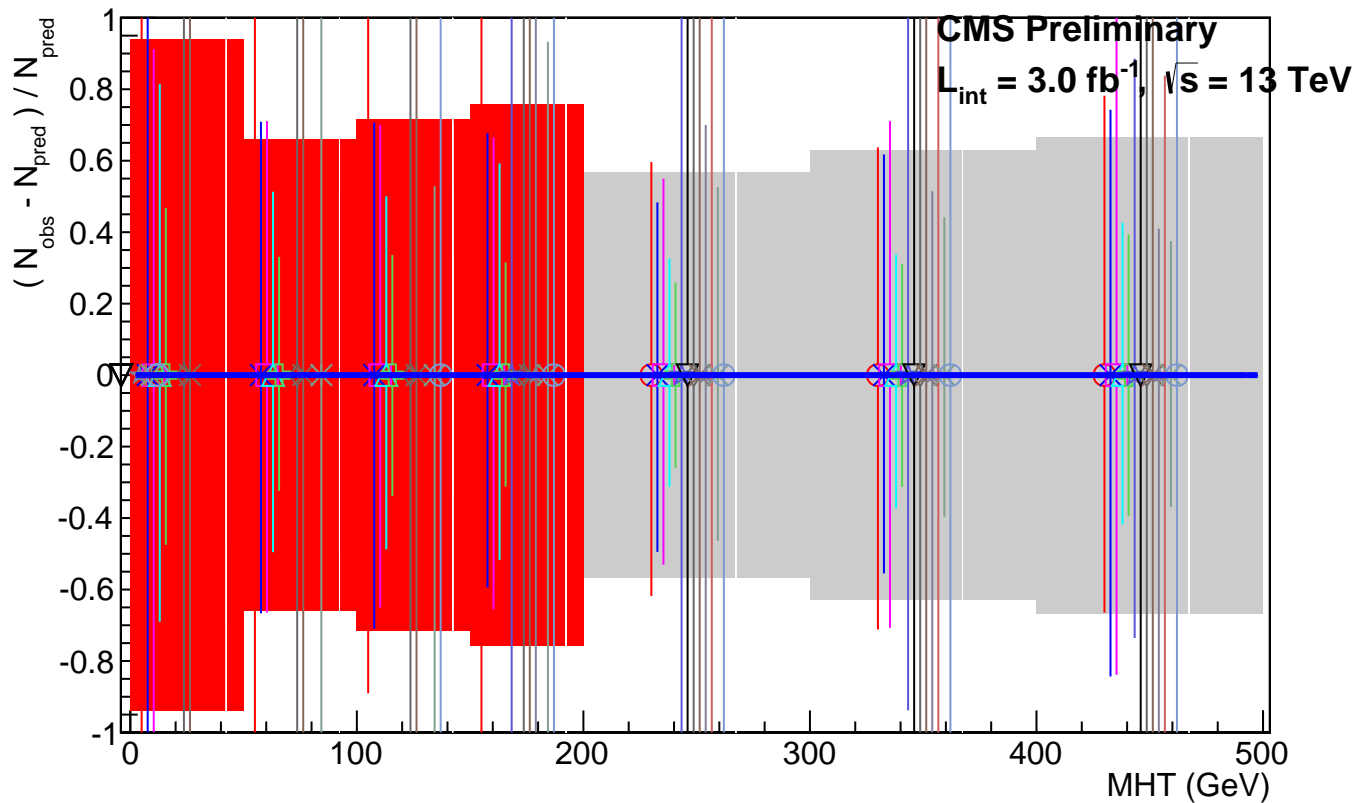
mht40_pt_nJet40_ge_5_ht40_ge_400.0_ht40_lt_600.0_Asym_0_ge5a



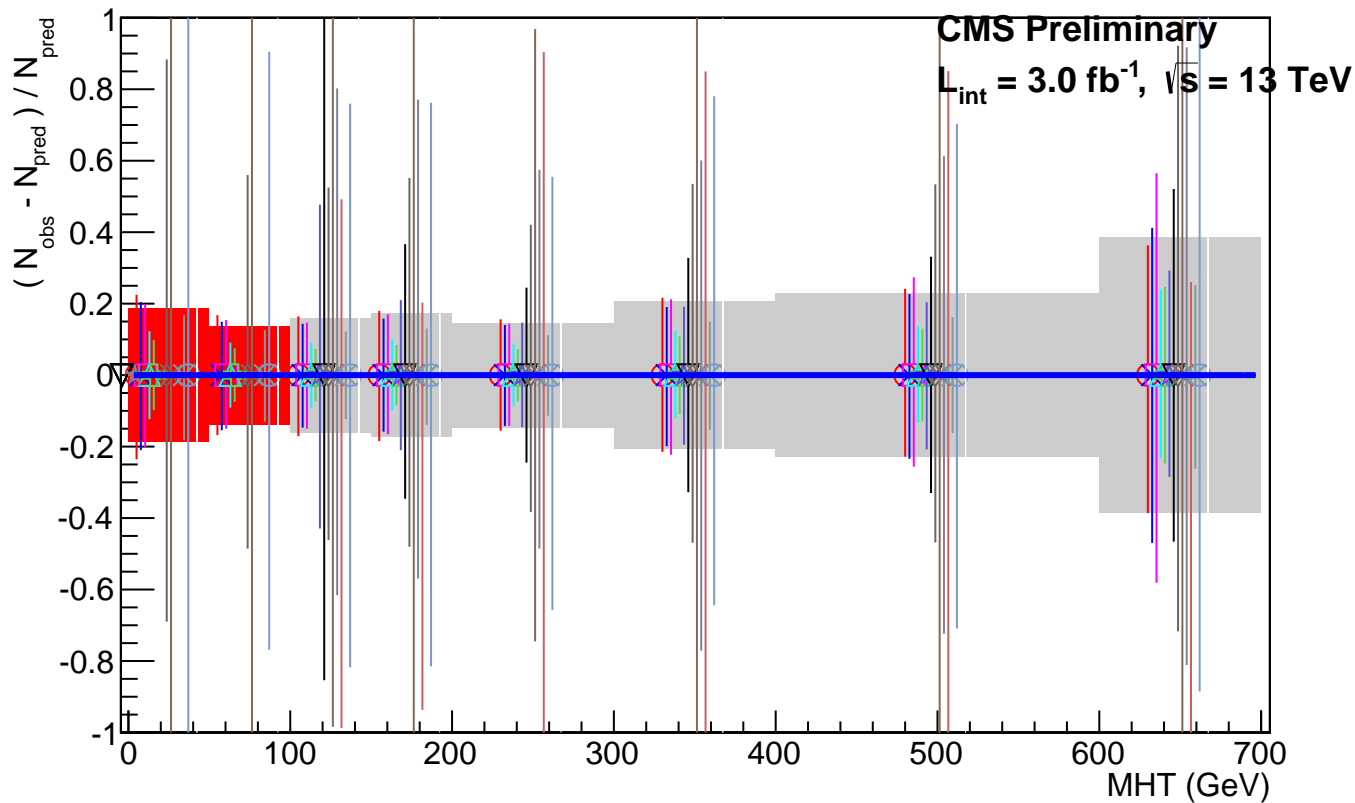
mht40_pt_nJet40_ge_5_ht40_ge_600.0_ht40_lt_800.0_0 ge5j

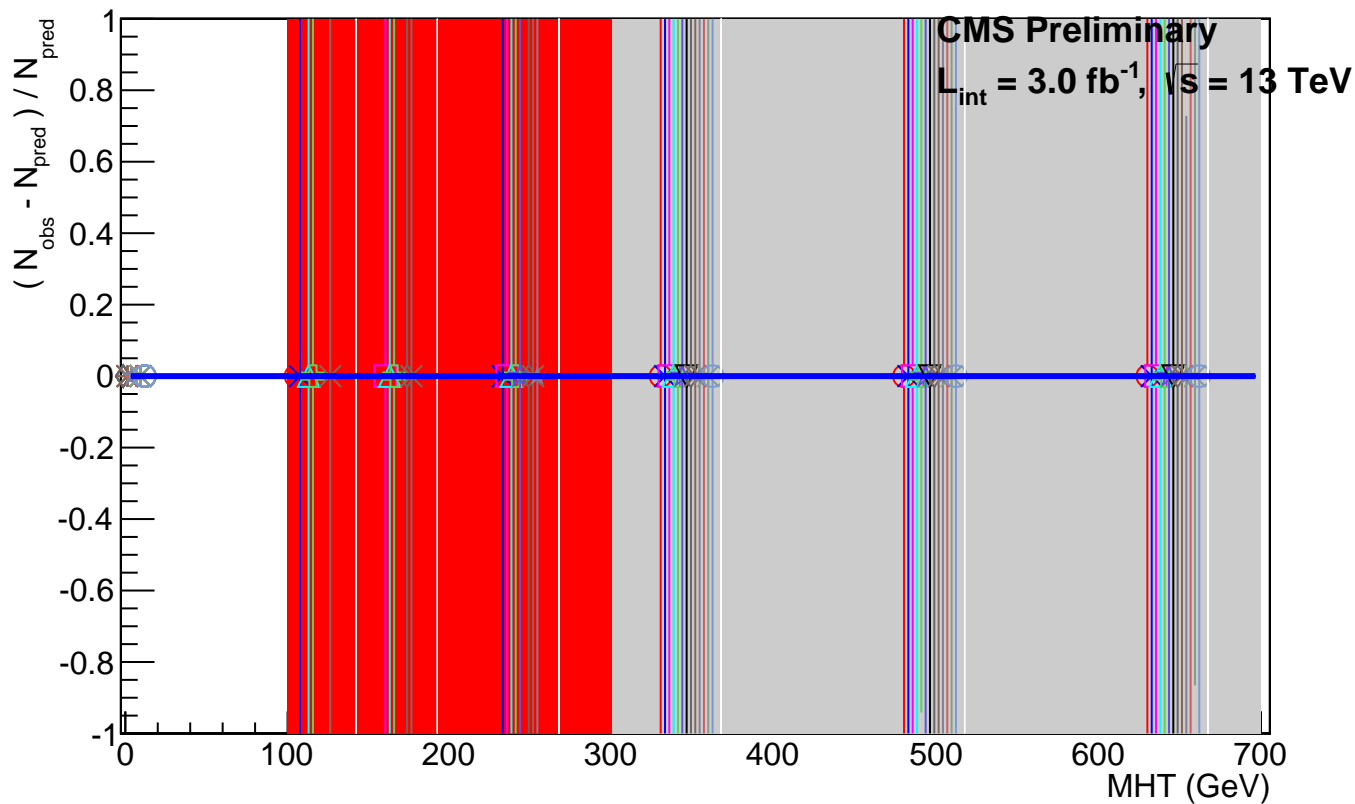


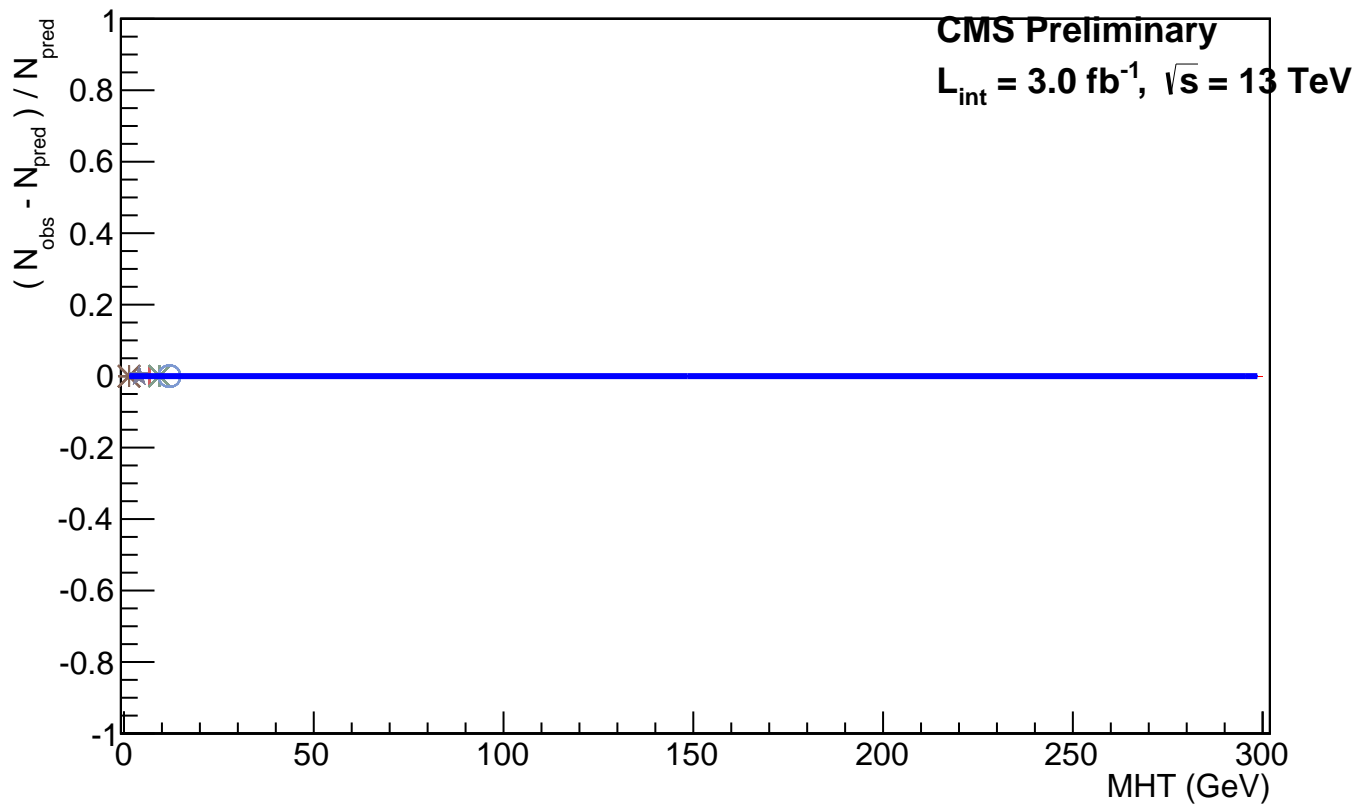
mht40_pt_nJet40_ge_5_ht40_ge_600.0_ht40_lt_800.0_Asym_0 ge5a

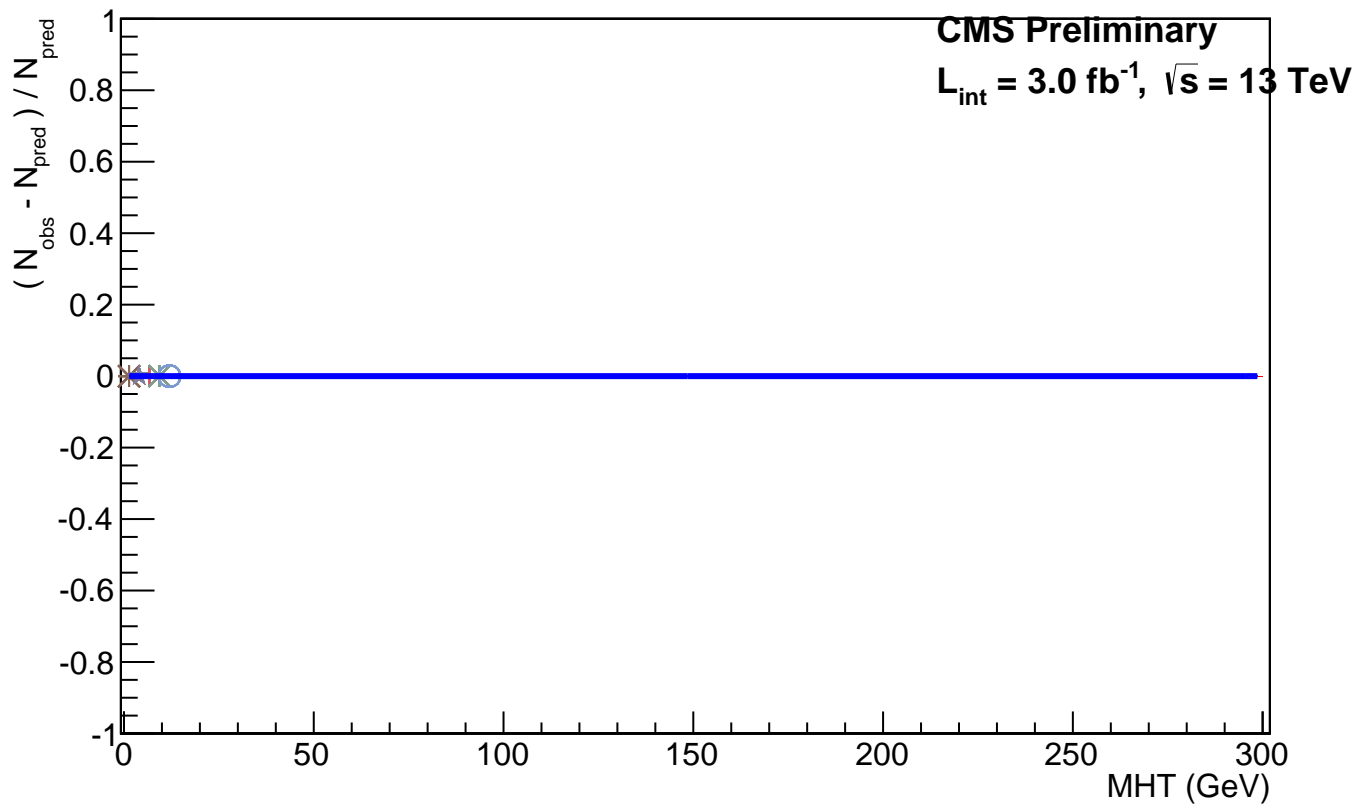


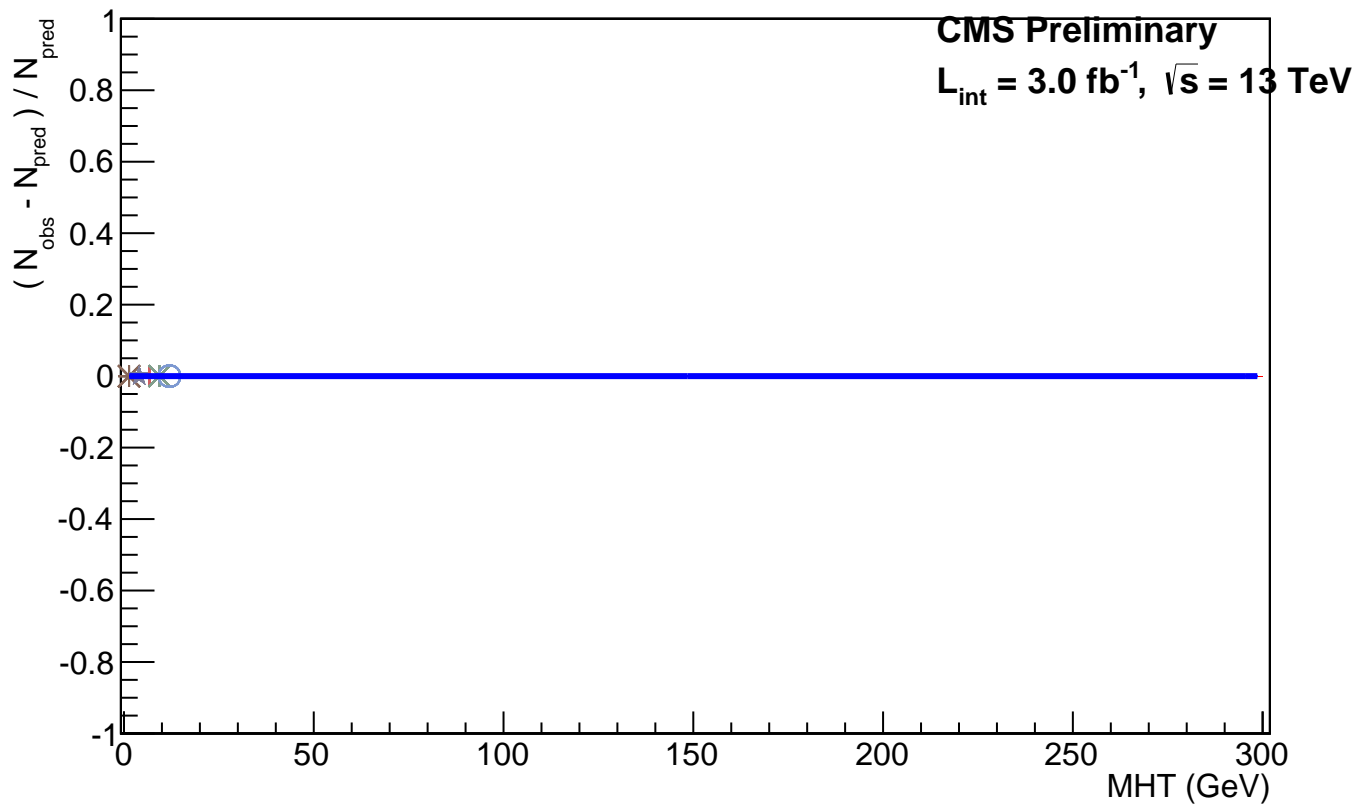
mht40_pt_nJet40_ge_5_ht40_ge_800.0_ht40_lt_99999.0_0 ge5j

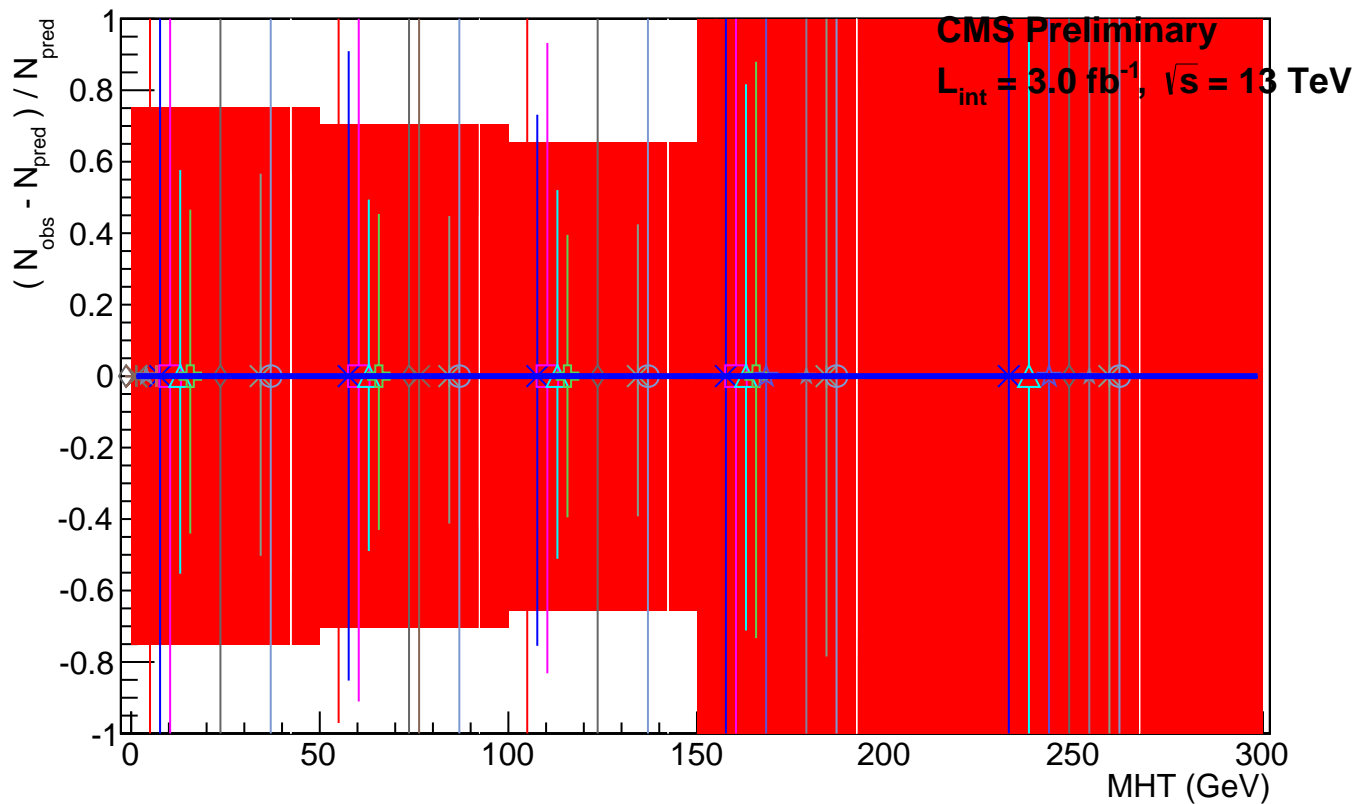


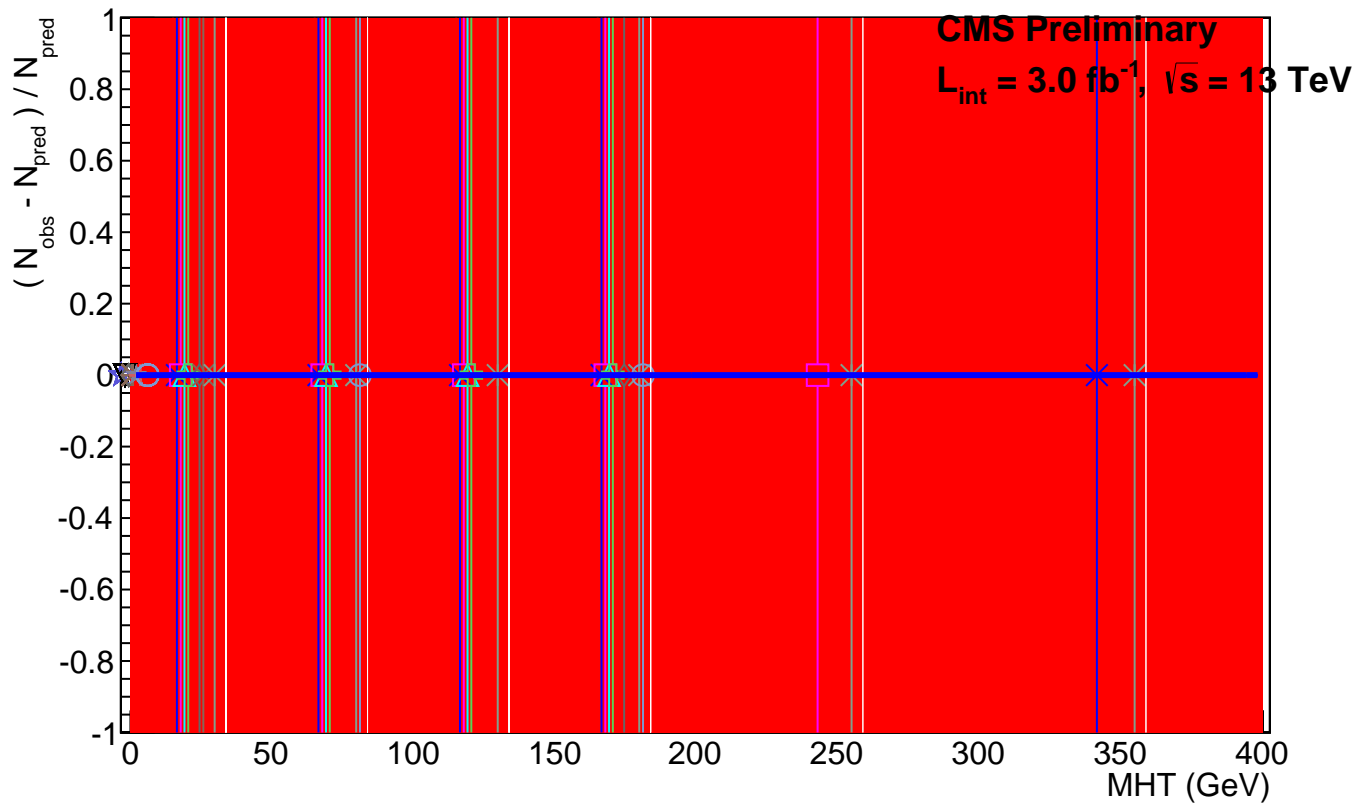


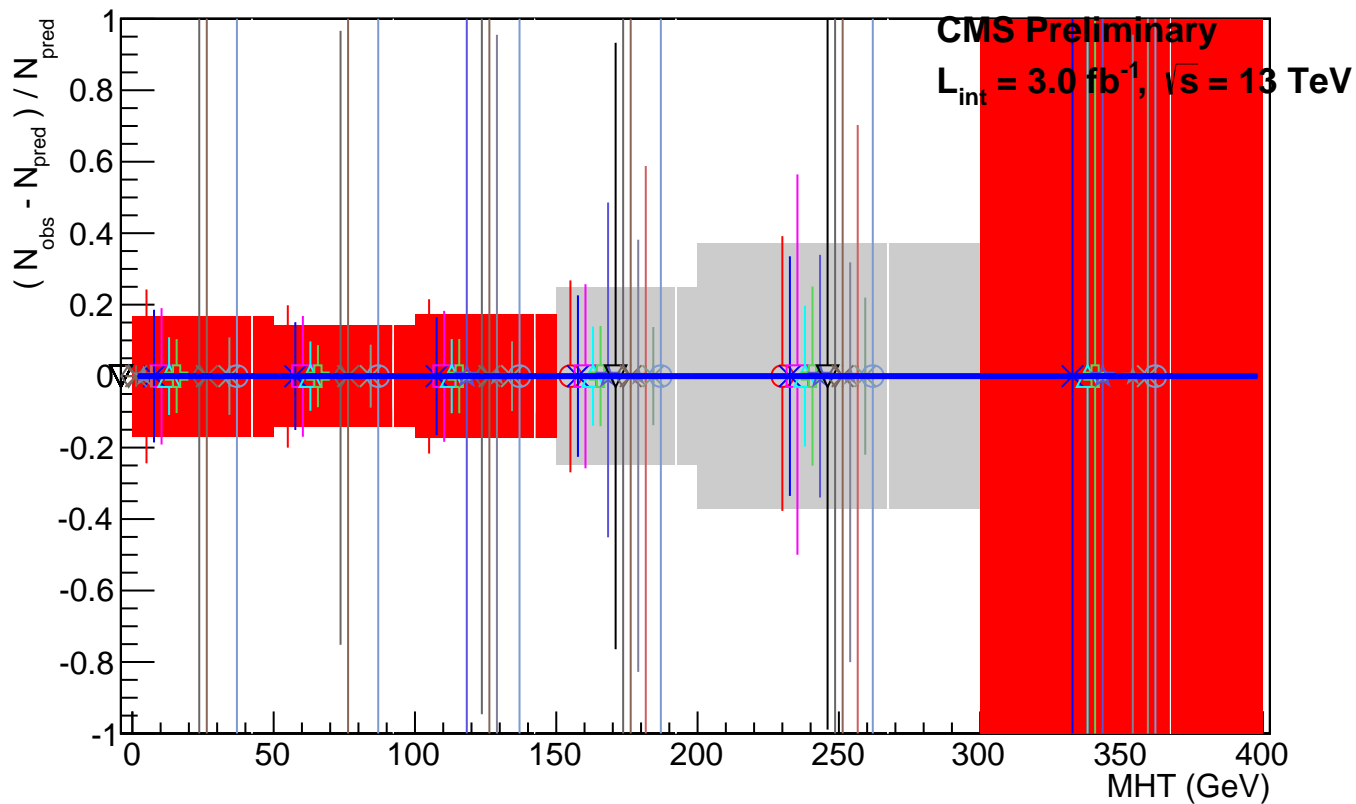












mht40_pt_nJet40_ge_5_ht40_ge_350.0_ht40_lt_400.0_0_Integrated ge5j_Integrated

