

Charge flip estimation effort

H⁺⁺H⁻⁻ Meeting

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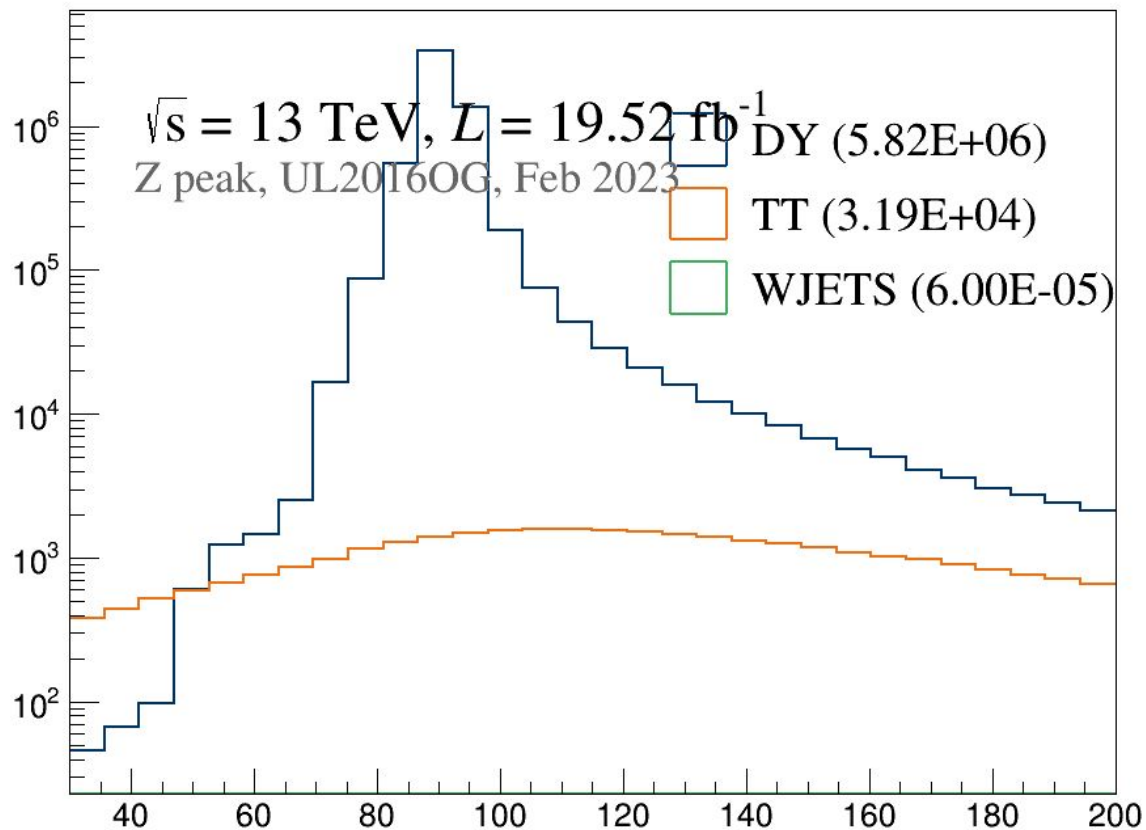
February 3, 2023

Made 9 categories (bins) in p_T and eta and exercised the machinery (still wjets with incorrect weight)

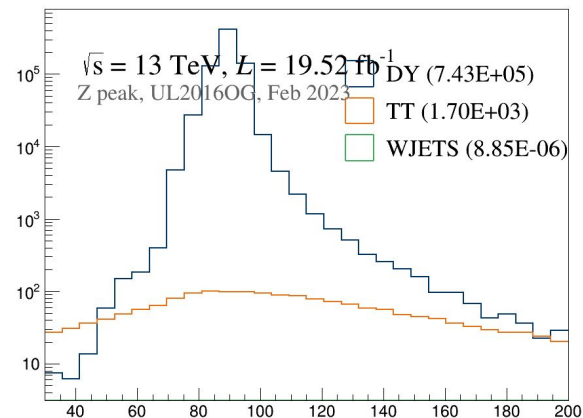
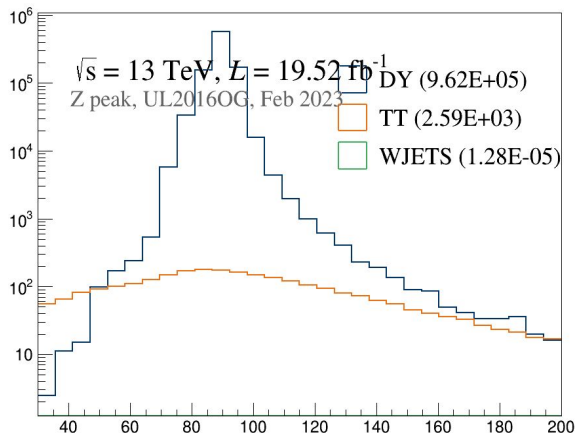
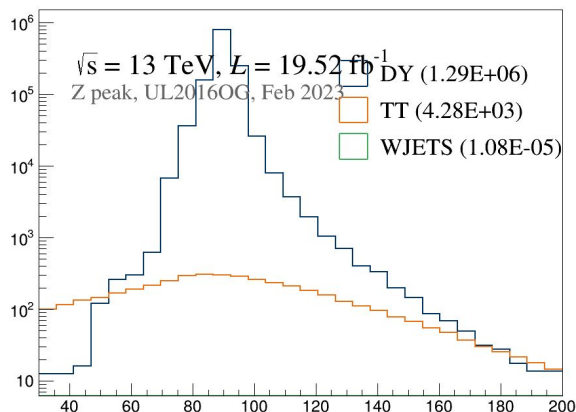
- cat1: $0 < p_T < 40$; $0 < |\eta| < 0.8$
- cat2: $0 < p_T < 40$; $0.8 \leq |\eta| < 1.479$
- cat3: $0 < p_T < 40$; $1.479 \leq |\eta| < 2.5$

- cat4: $40 \leq p_T < 100$; $0 < |\eta| < 0.8$
- cat5: $40 \leq p_T < 100$; $0.8 \leq |\eta| < 1.479$
- cat6: $40 \leq p_T < 100$; $1.479 \leq |\eta| < 2.5$

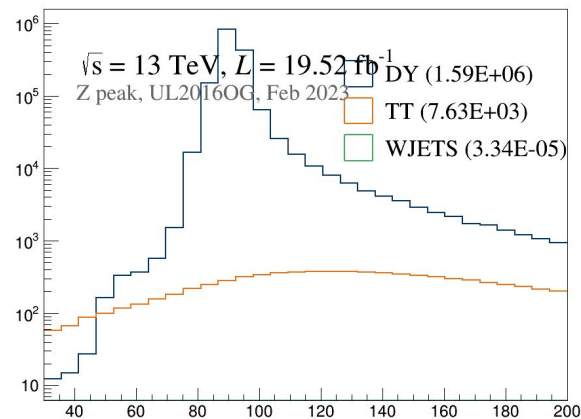
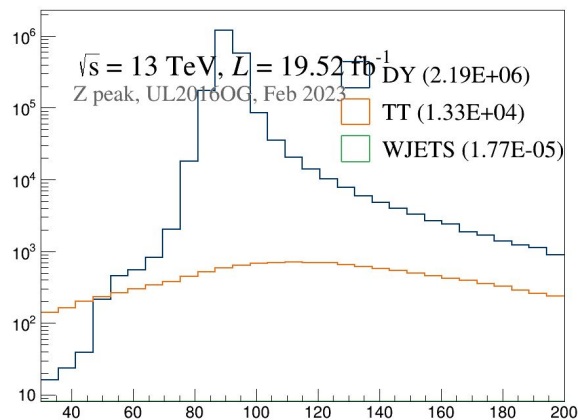
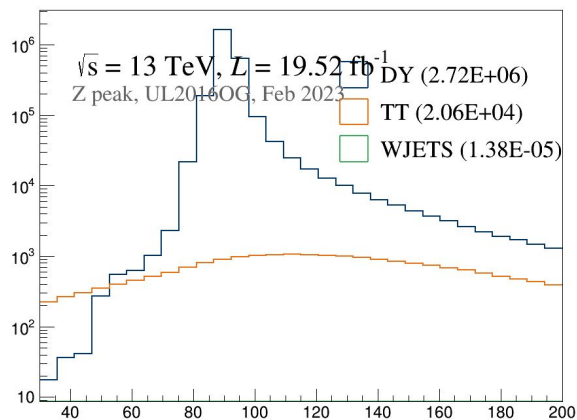
- cat7: $p_T \geq 100$; $0 < |\eta| < 0.8$
- cat8: $p_T \geq 100$; $0.8 \leq |\eta| < 1.479$
- cat9: $p_T \geq 100$; $1.479 \leq |\eta| < 2.5$



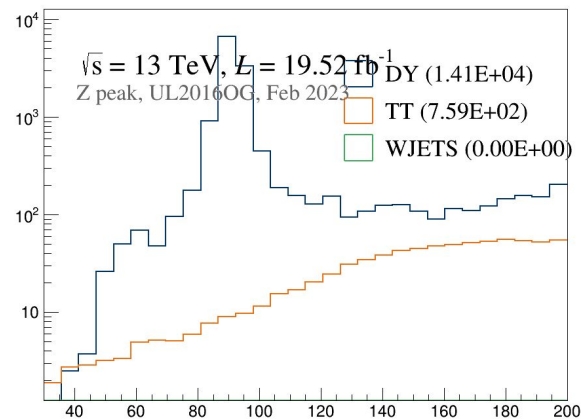
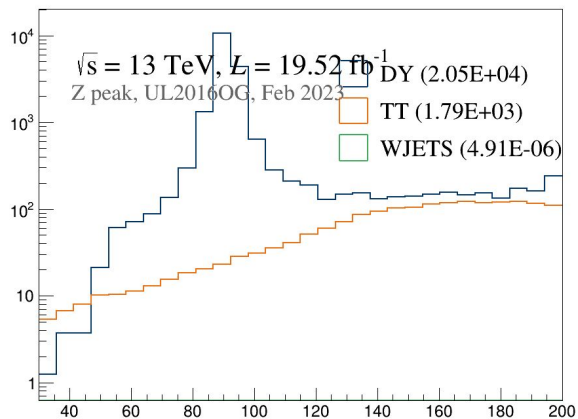
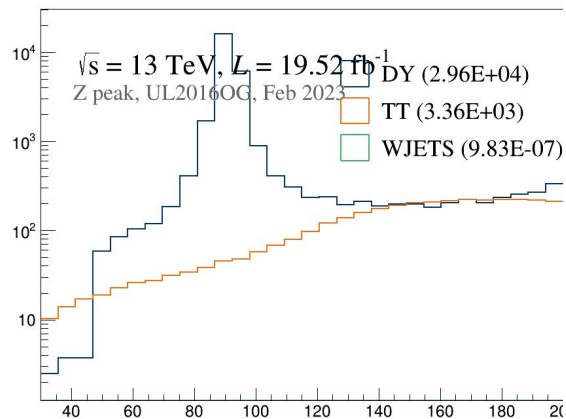
- cat1: $0 < p_t < 40$; $0 < |\eta| < 0.8$
- cat2: $0 < p_t < 40$; $0.8 \leq |\eta| < 1.479$
- cat3: $0 < p_t < 40$; $1.479 \leq |\eta| < 2.5$



- cat4: $40 \leq p_t < 100$; $0 < |\eta| < 0.8$
- cat5: $40 \leq p_t < 100$; $0.8 \leq |\eta| < 1.479$
- cat6: $40 \leq p_t < 100$; $1.479 \leq |\eta| < 2.5$



- cat7: $pt \geq 100$; $0 < |\eta| < 0.8$
- cat8: $pt \geq 100$; $0.8 \leq |\eta| < 1.479$
- cat9: $pt \geq 100$; $1.479 \leq |\eta| < 2.5$



Made a check on Wjets sample without weights

- We do get events
- Ballpark cross-section should be ok (checked with Santiago), but I am somehow not propagating that correctly
- Need to be checked

