

$t\bar{t}Z'$ Meeting

Manuel Fernando Sánchez Alarcón

Conventions

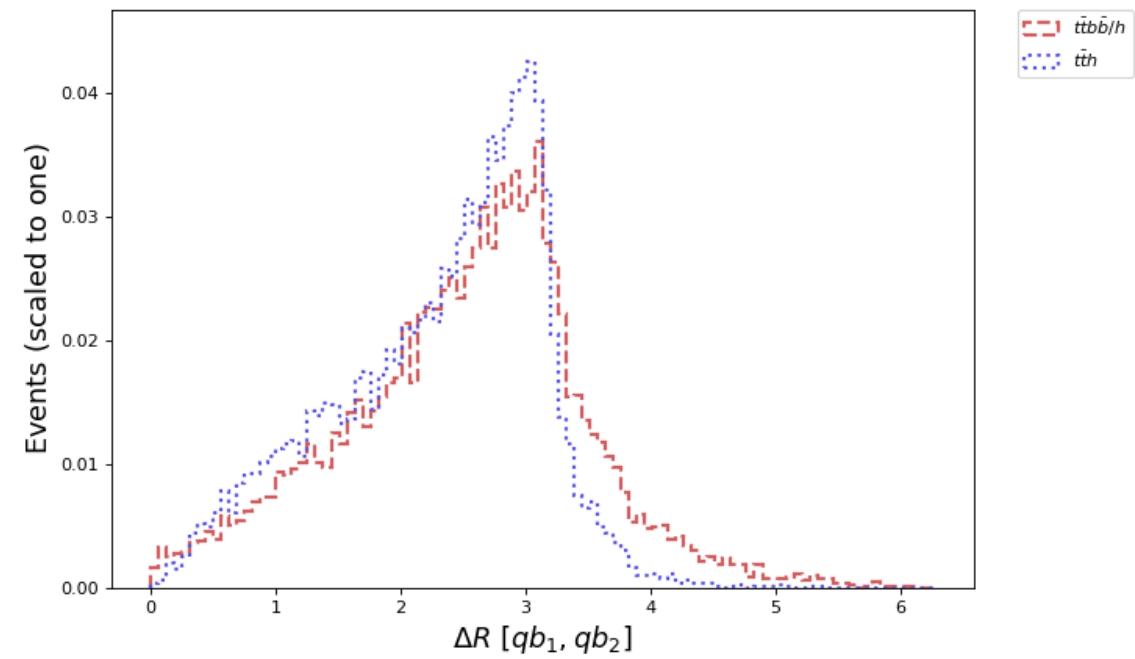
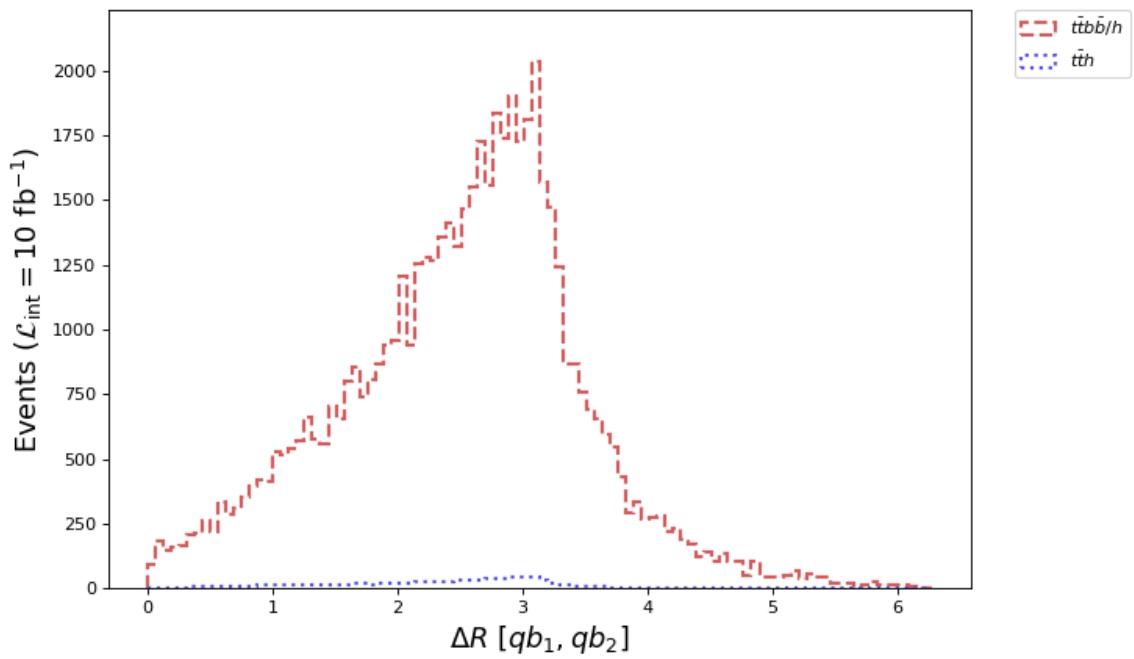
l Leptons

ν_l Neutrinos

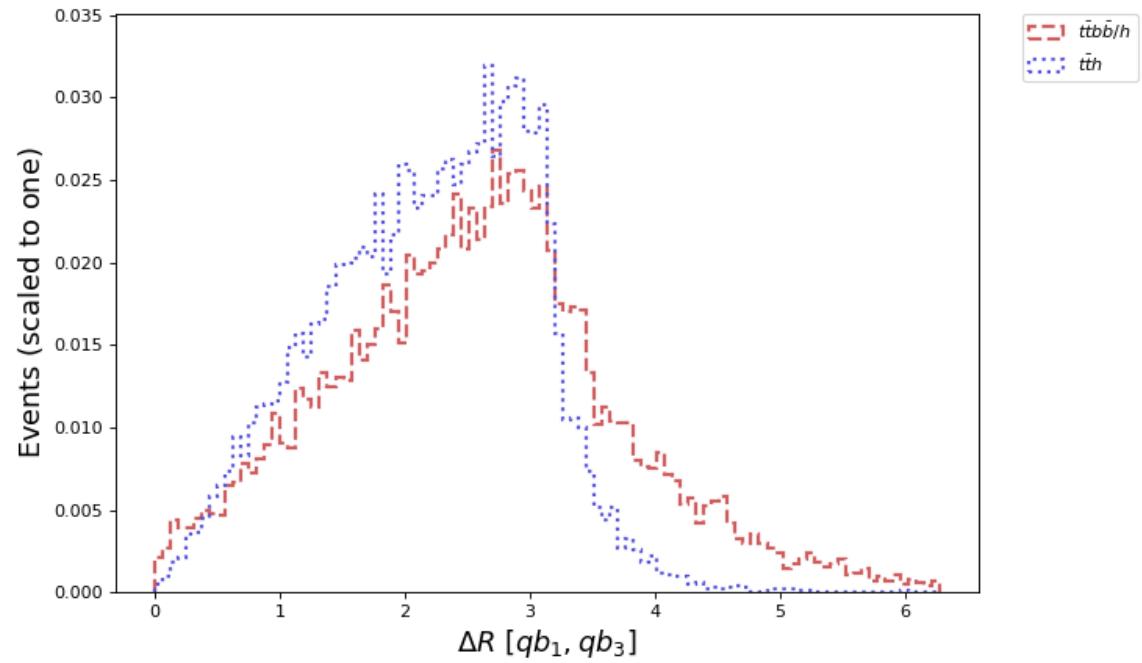
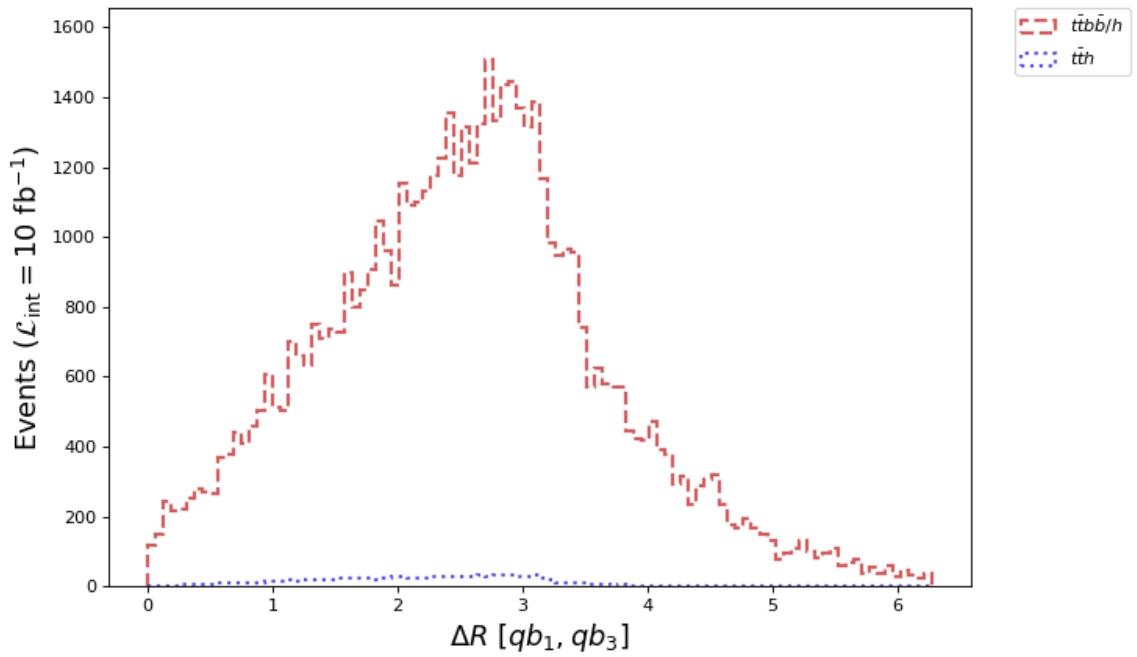
b_i b quarks $p_T(b_1) > p_T(b_2) > \dots$

j_i Jets $p_T(j_1) > p_T(j_2)$

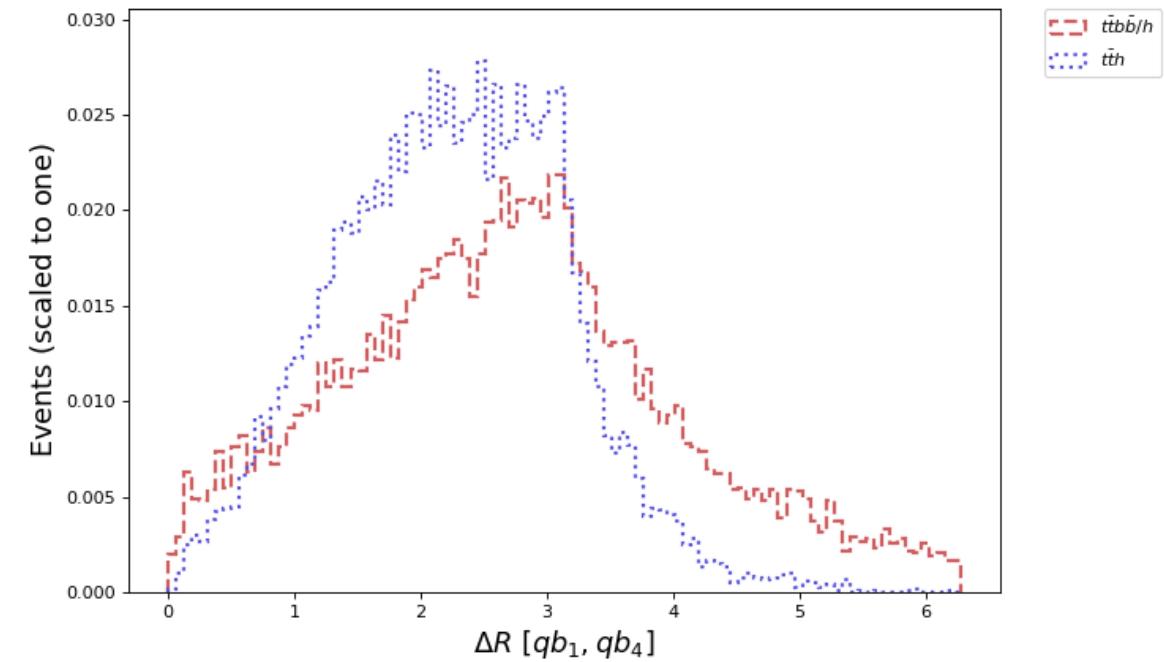
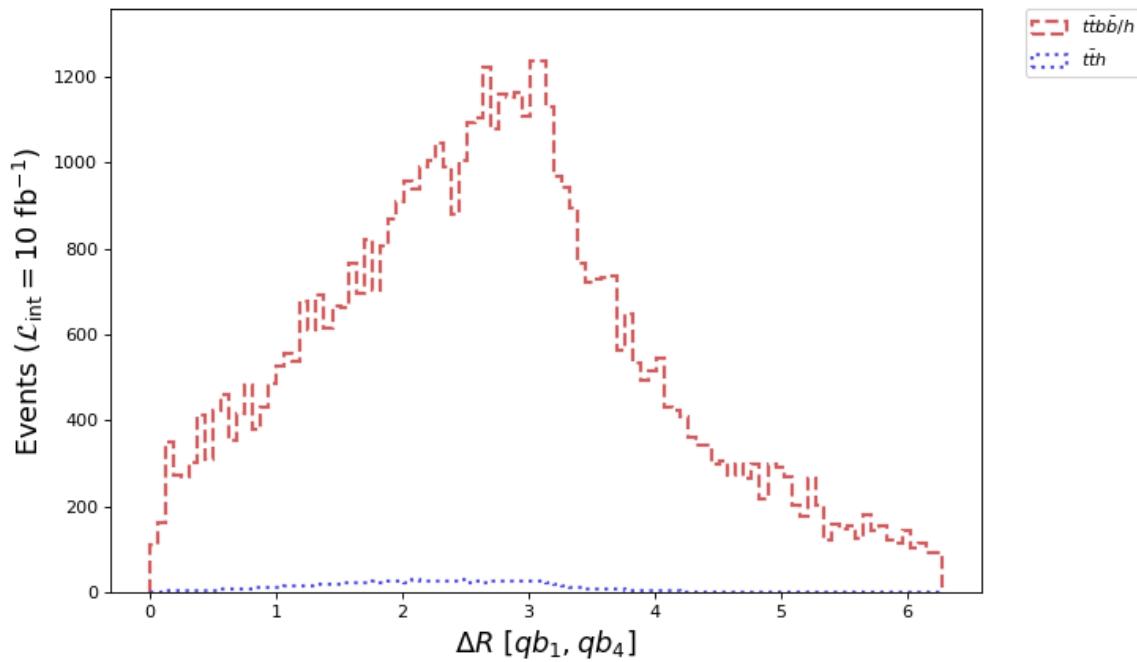
$$\Delta R(b_1, b_2)$$



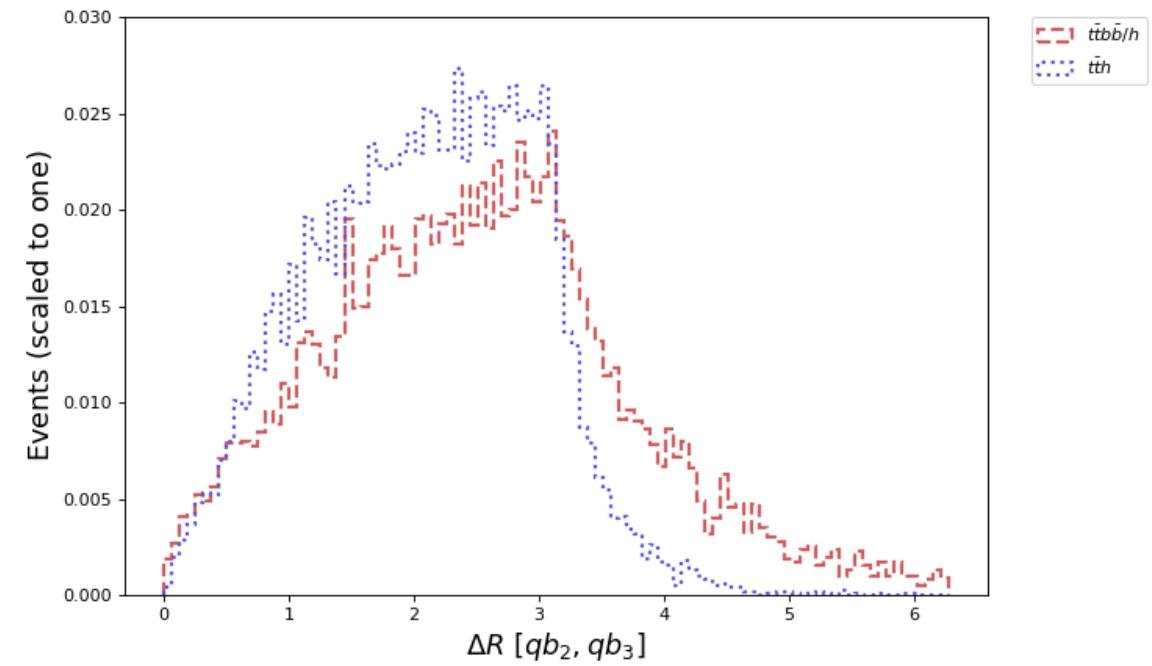
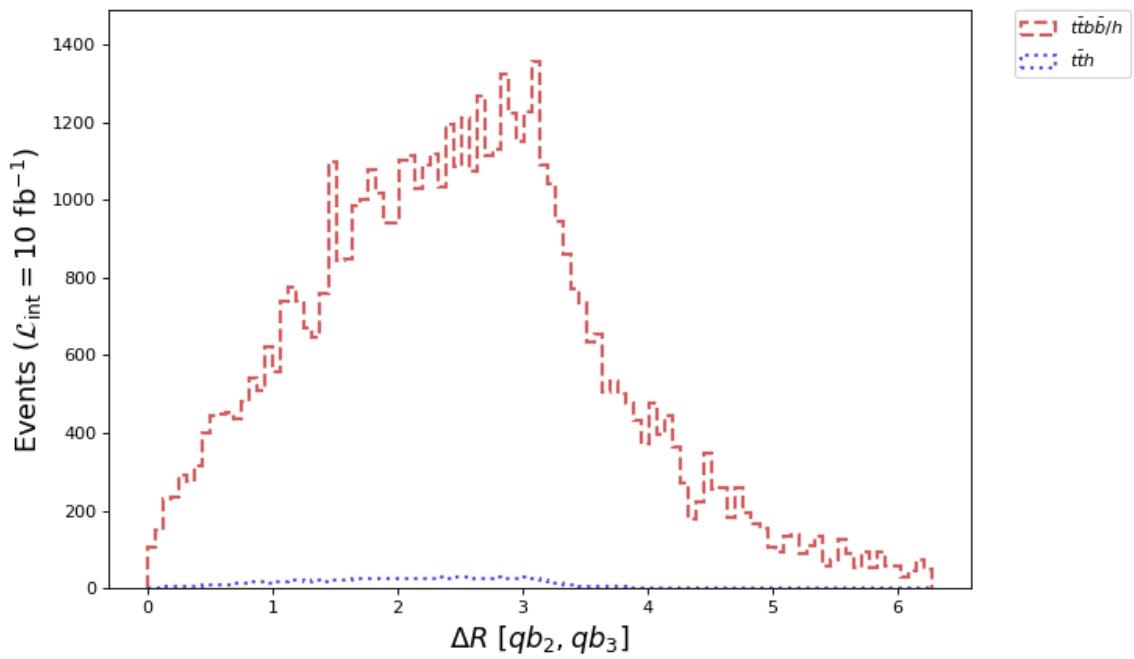
$\Delta R(b_1, b_3)$



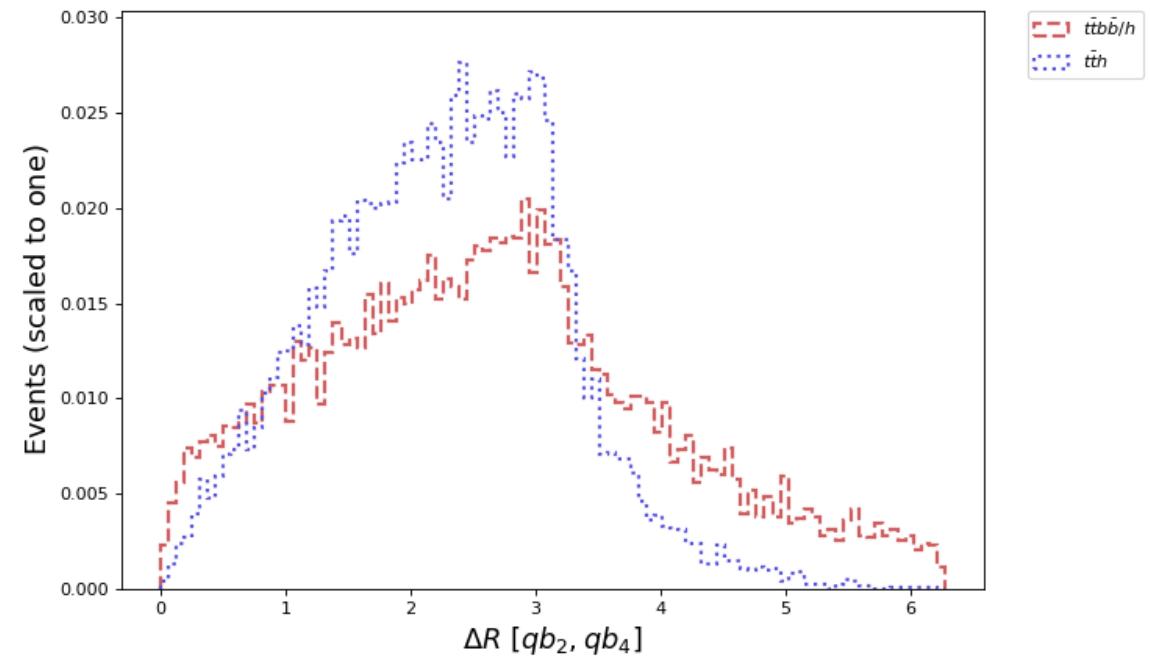
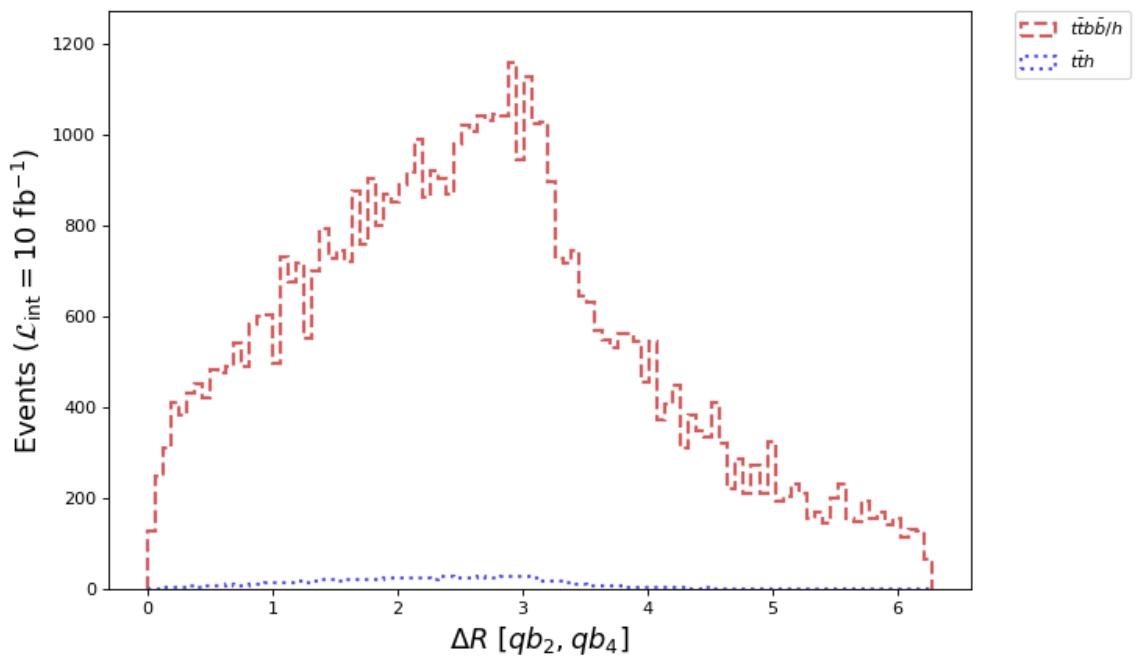
$\Delta R(b_1, b_4)$



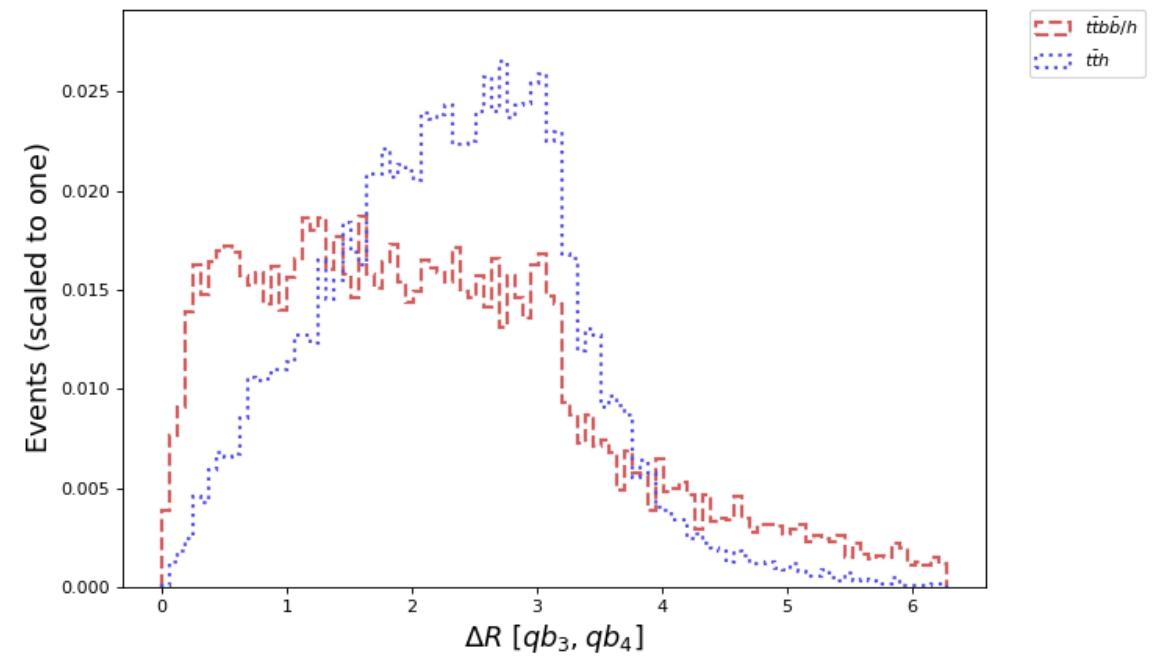
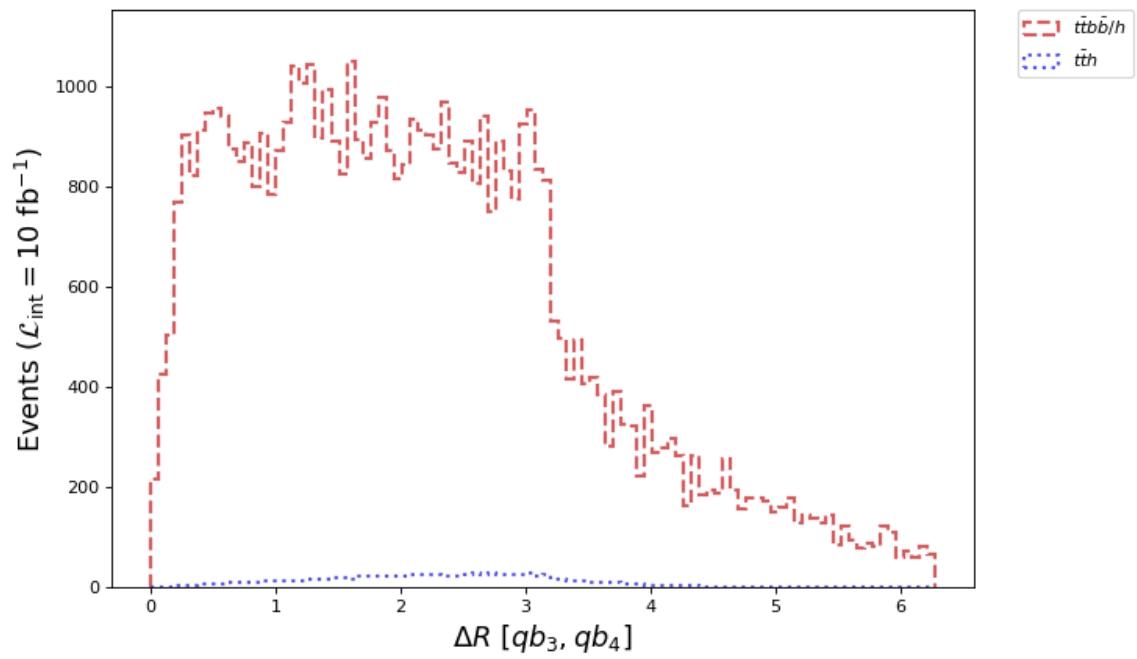
$\Delta R(b_2, b_3)$



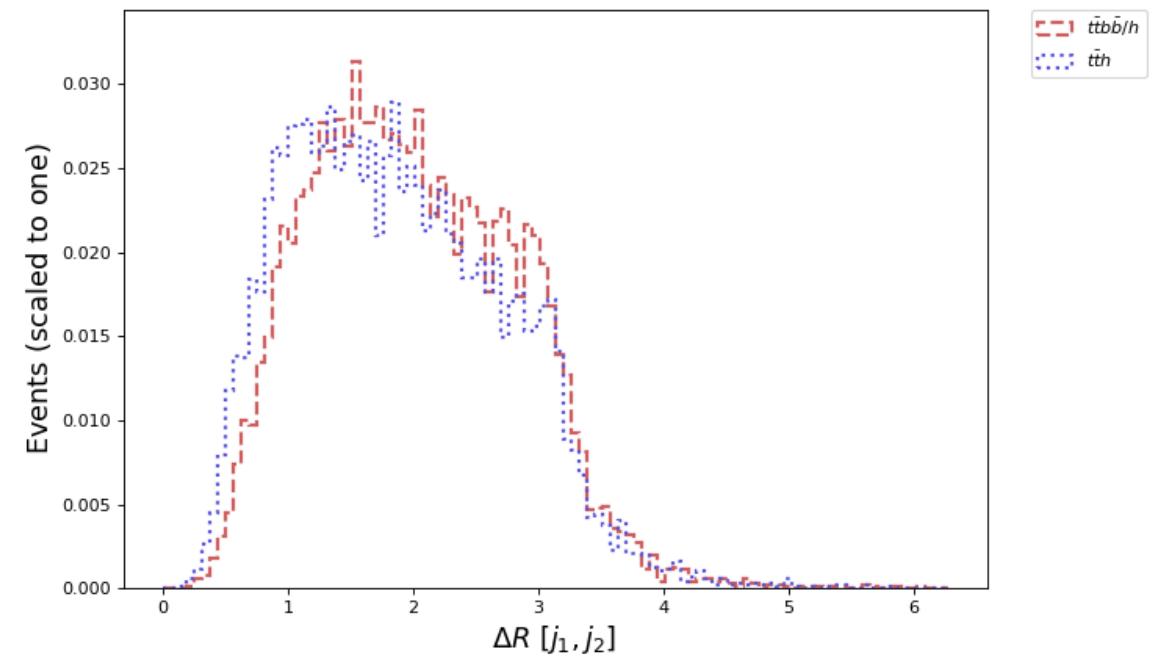
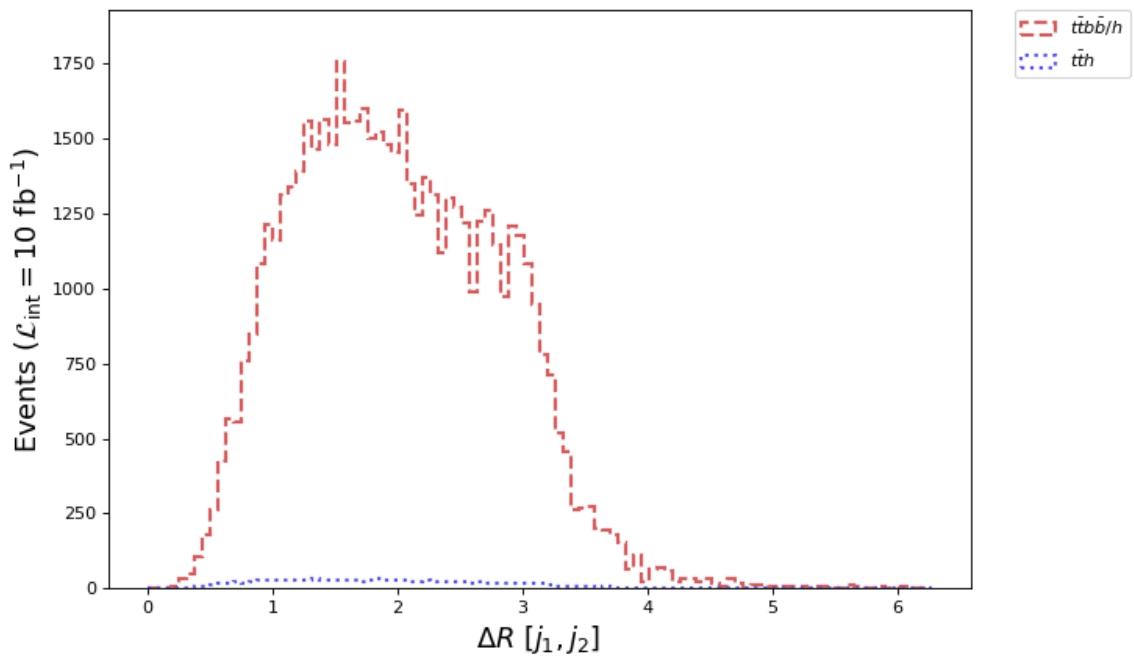
$$\Delta R(b_2, b_4)$$



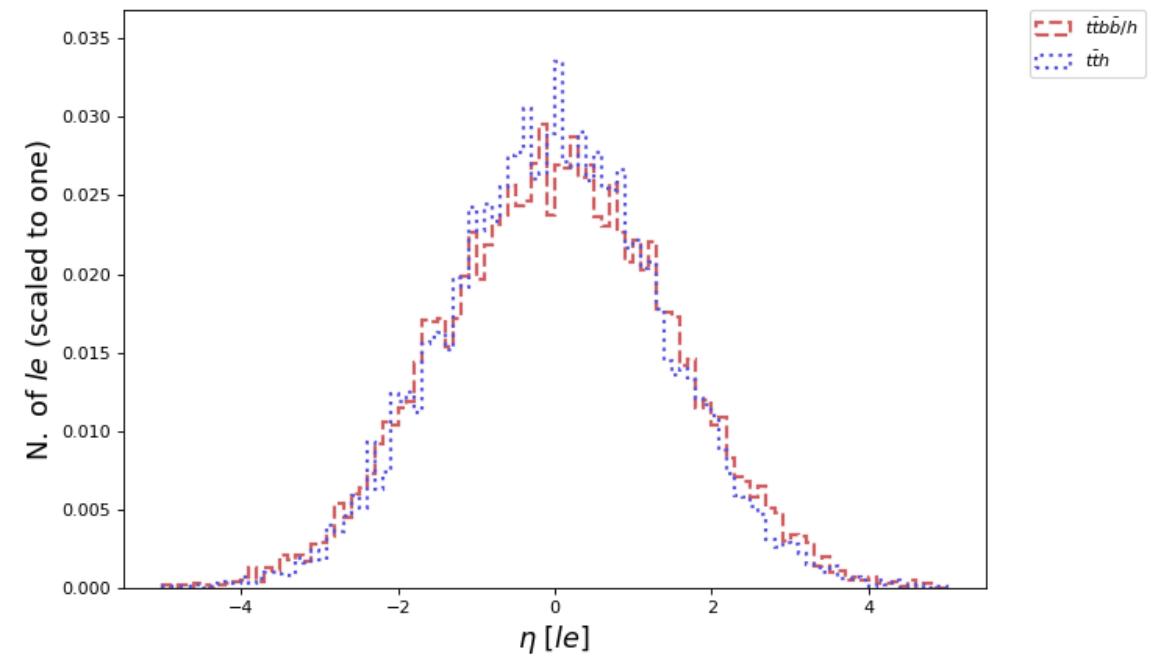
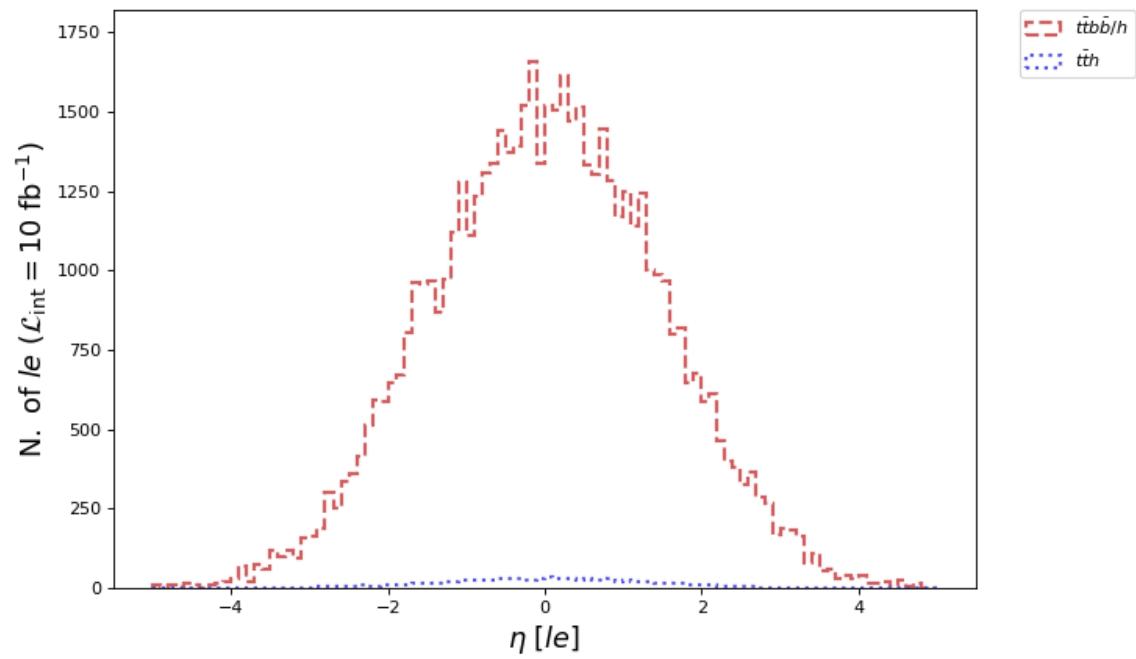
$\Delta R(b_3, b_4)$



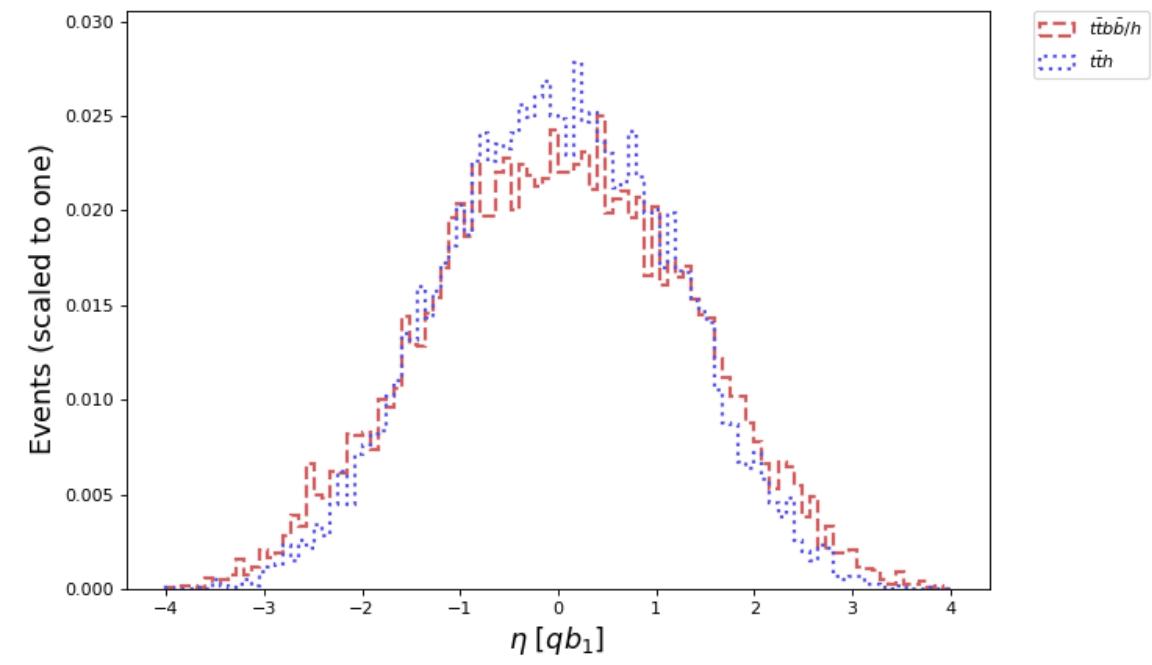
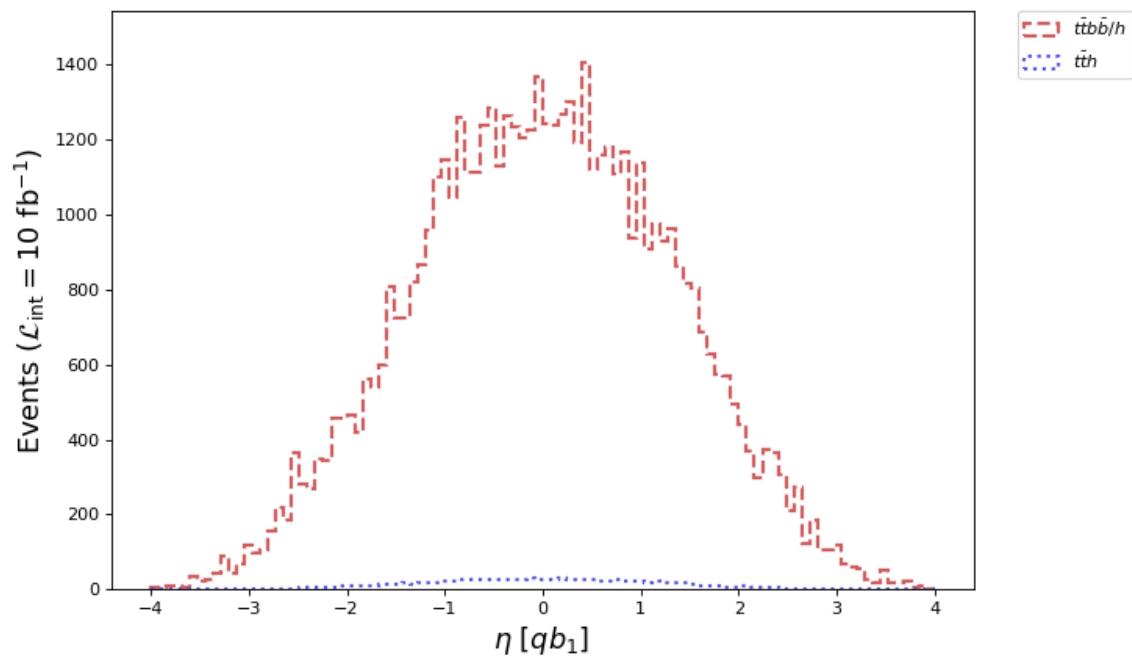
$$\Delta R(j_1, j_2)$$



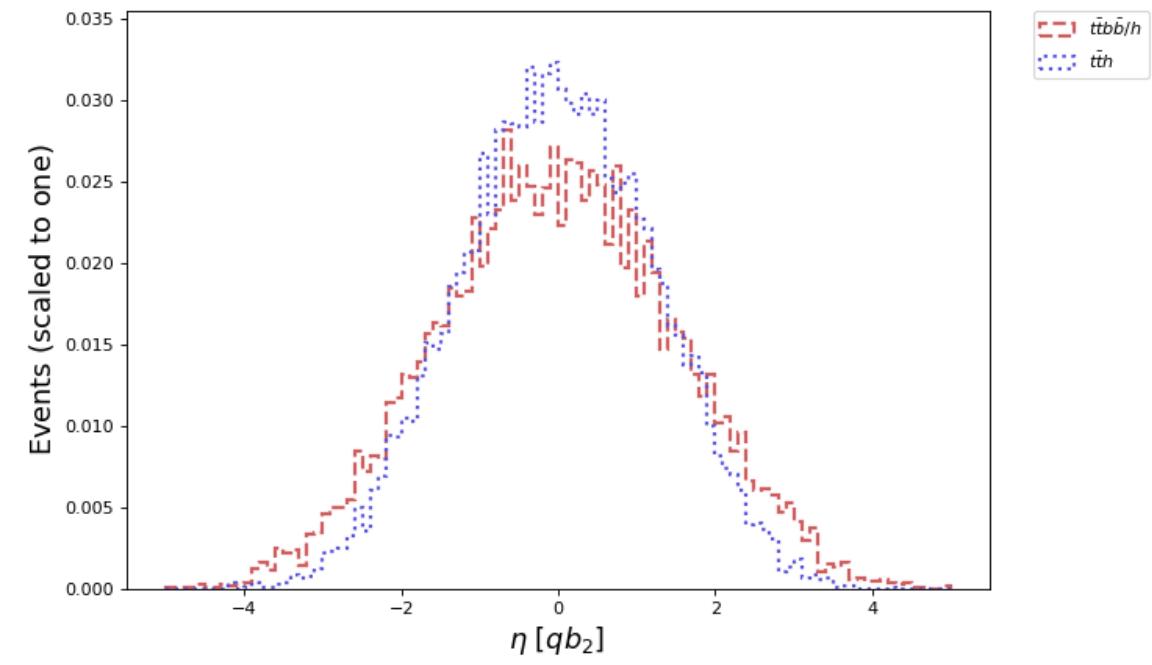
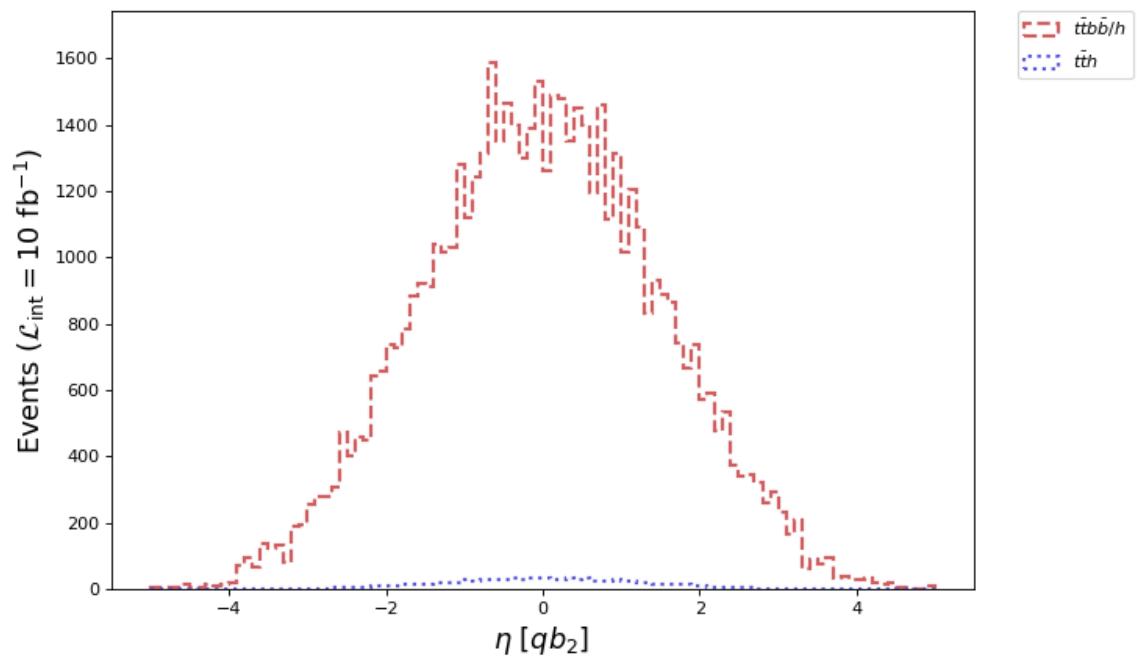
$$\eta(l)$$



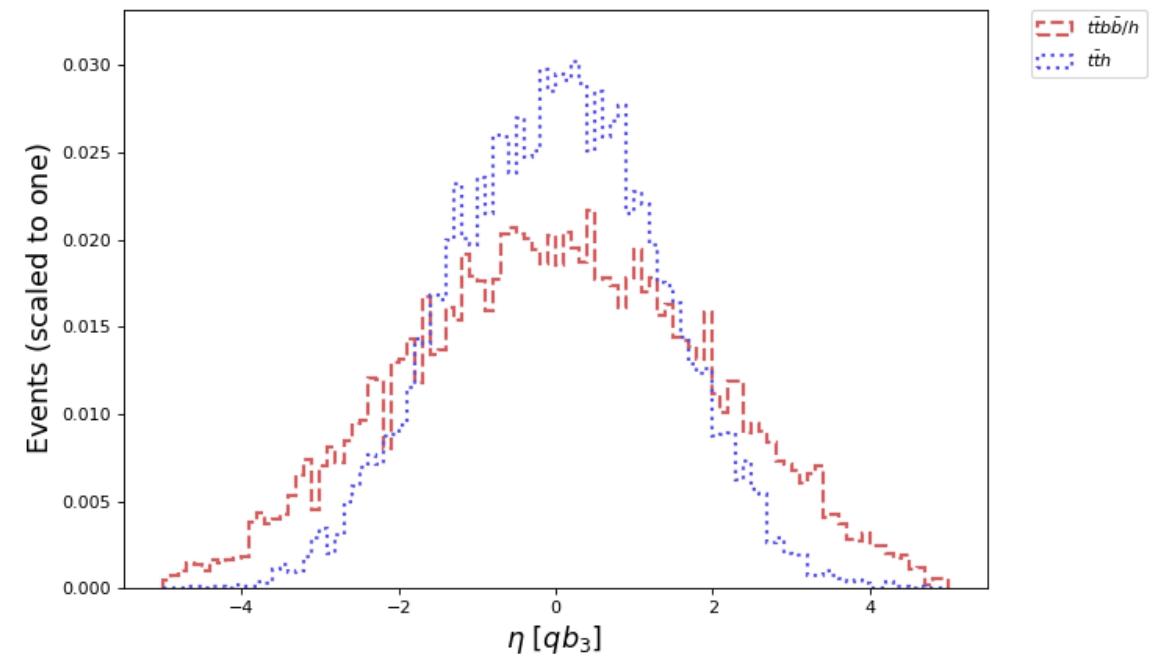
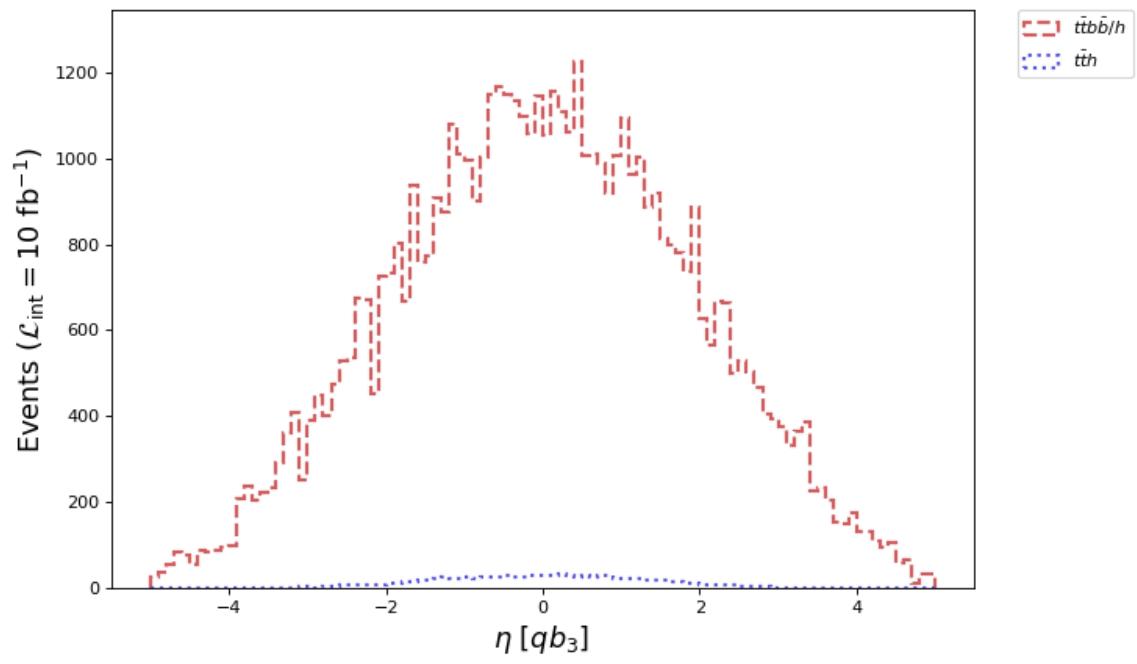
$$\eta(b_1)$$



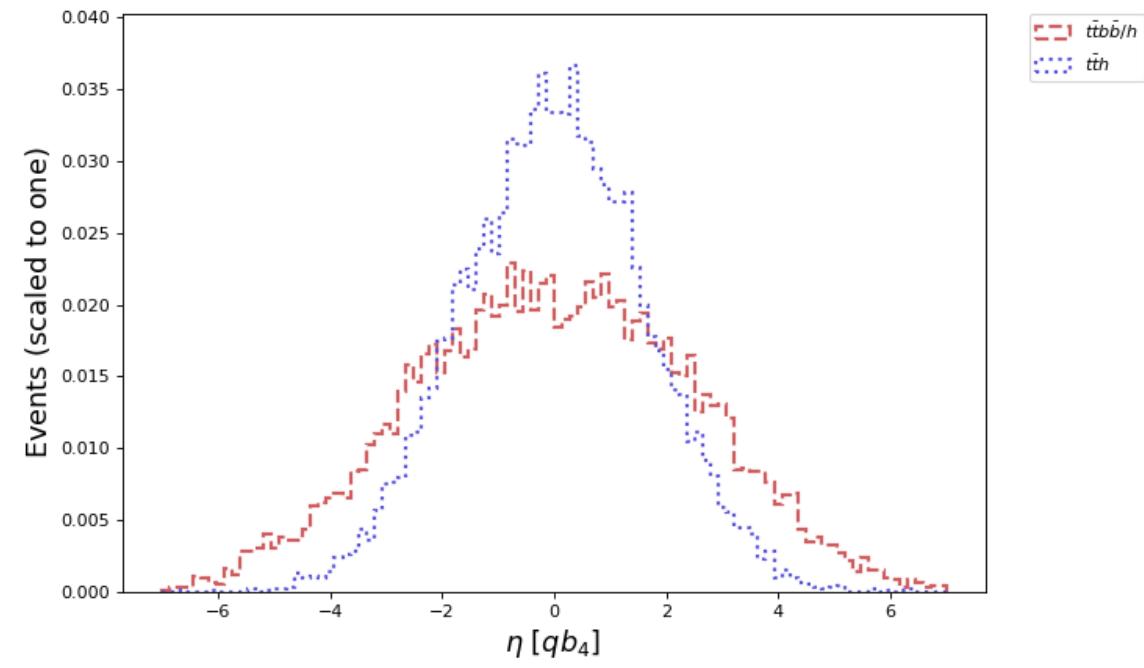
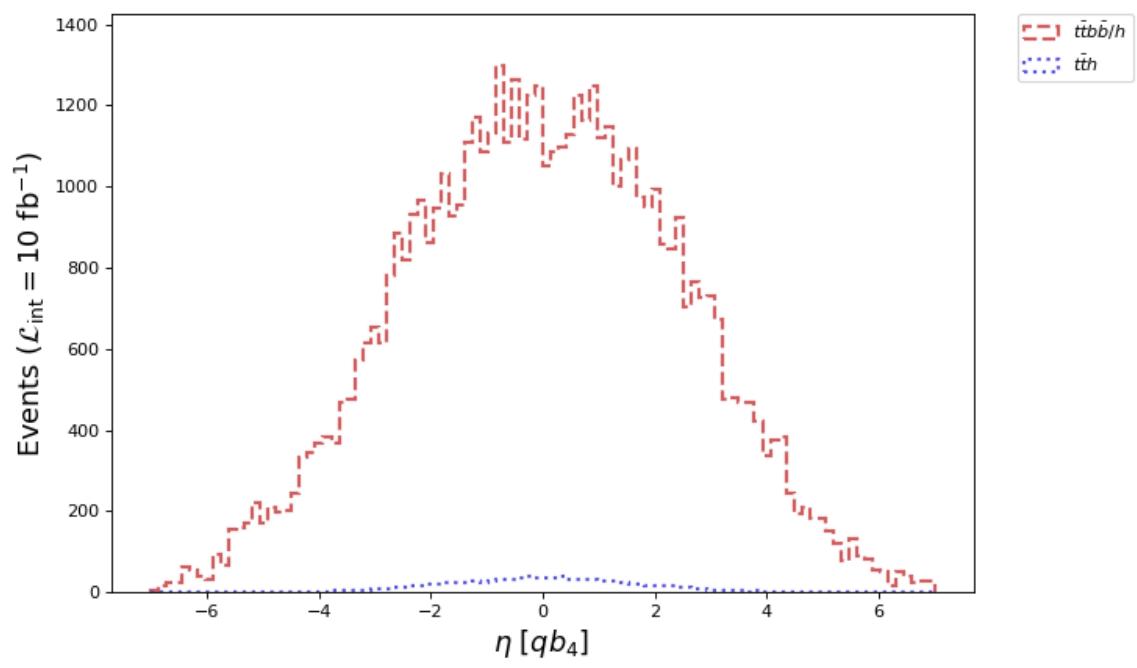
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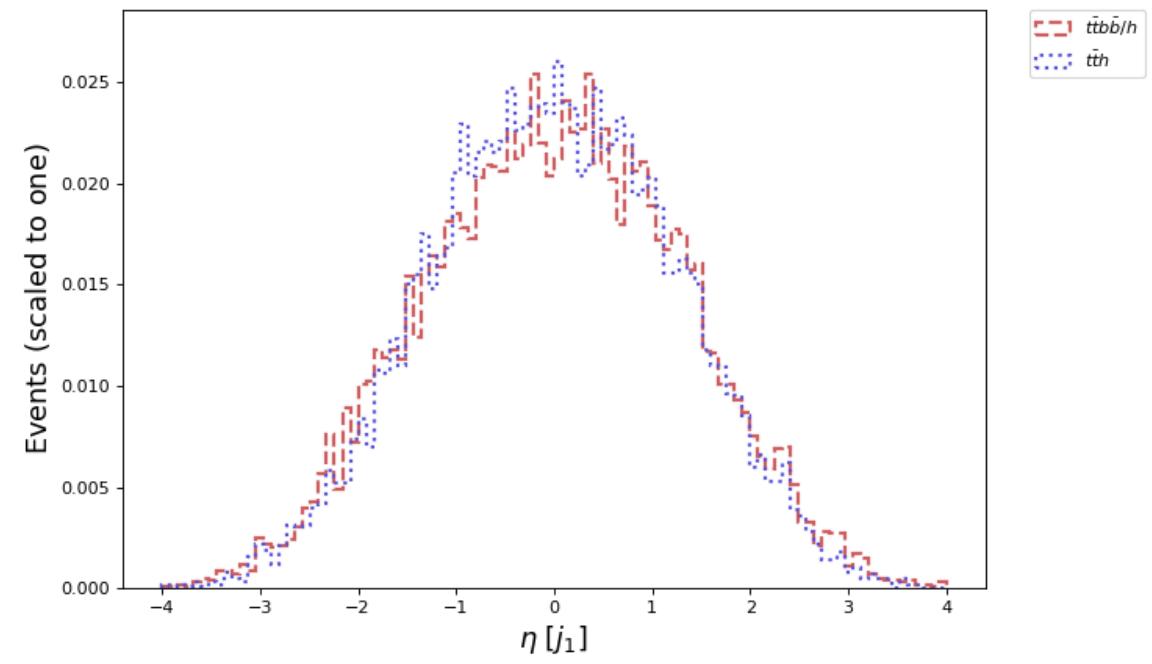
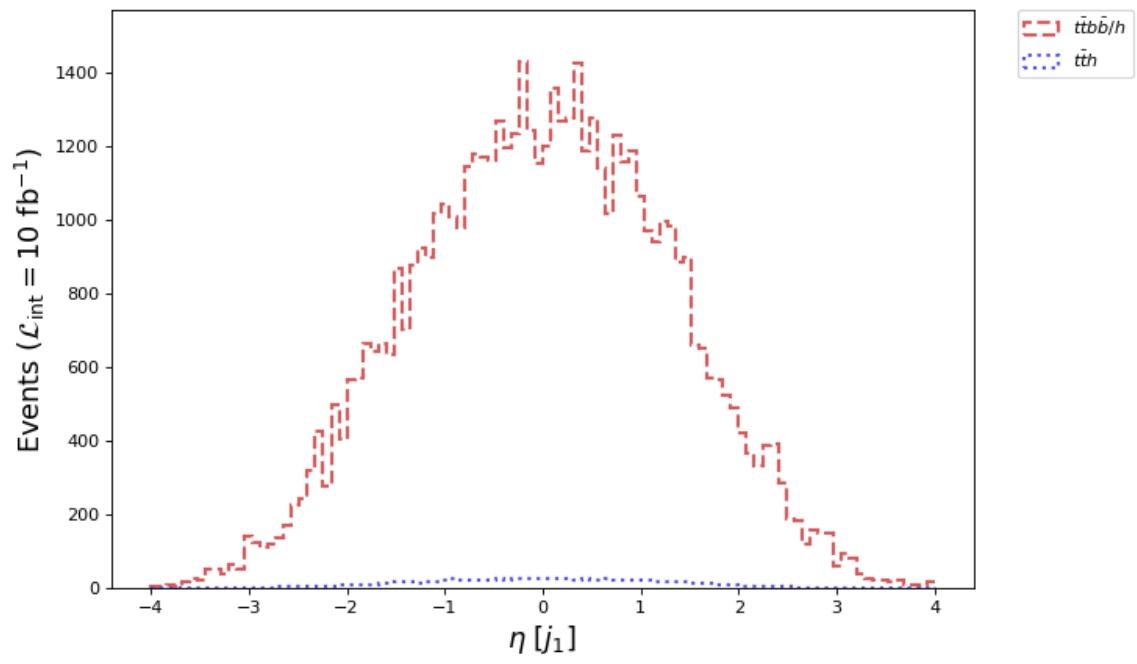


$$\eta(b_3)$$

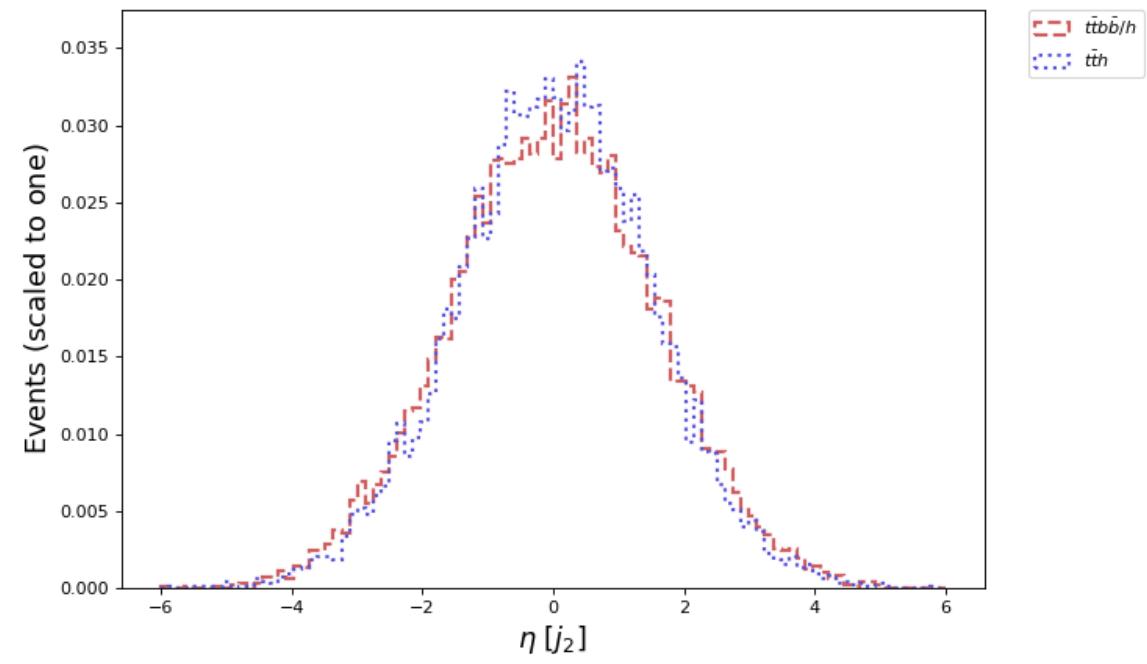
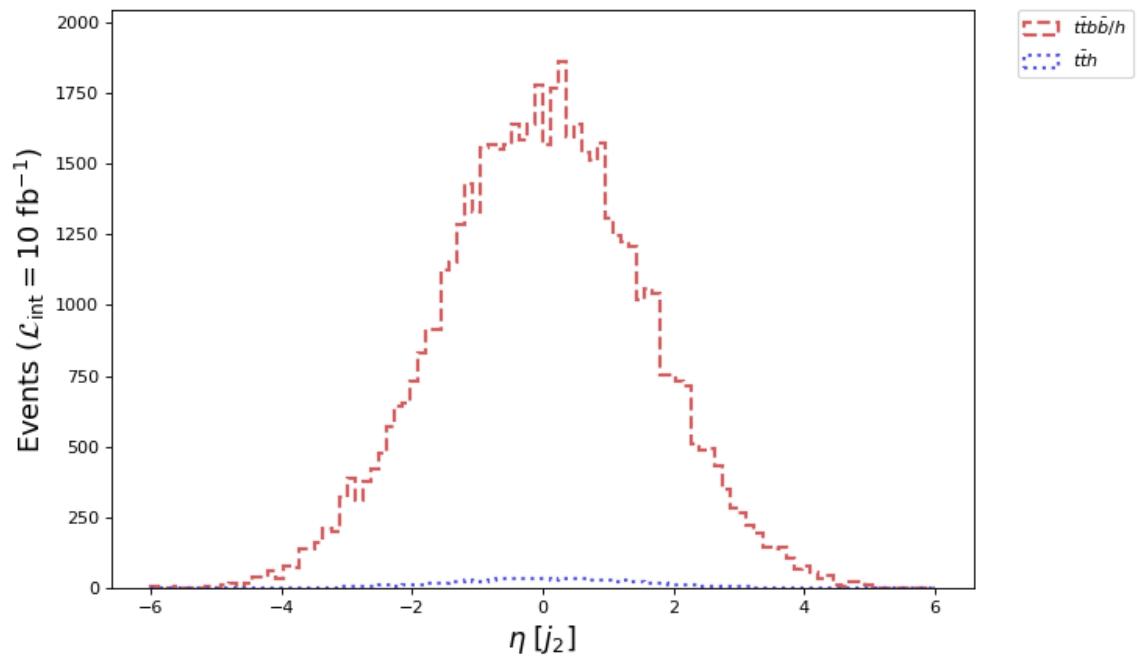


$$\eta(b_4)$$

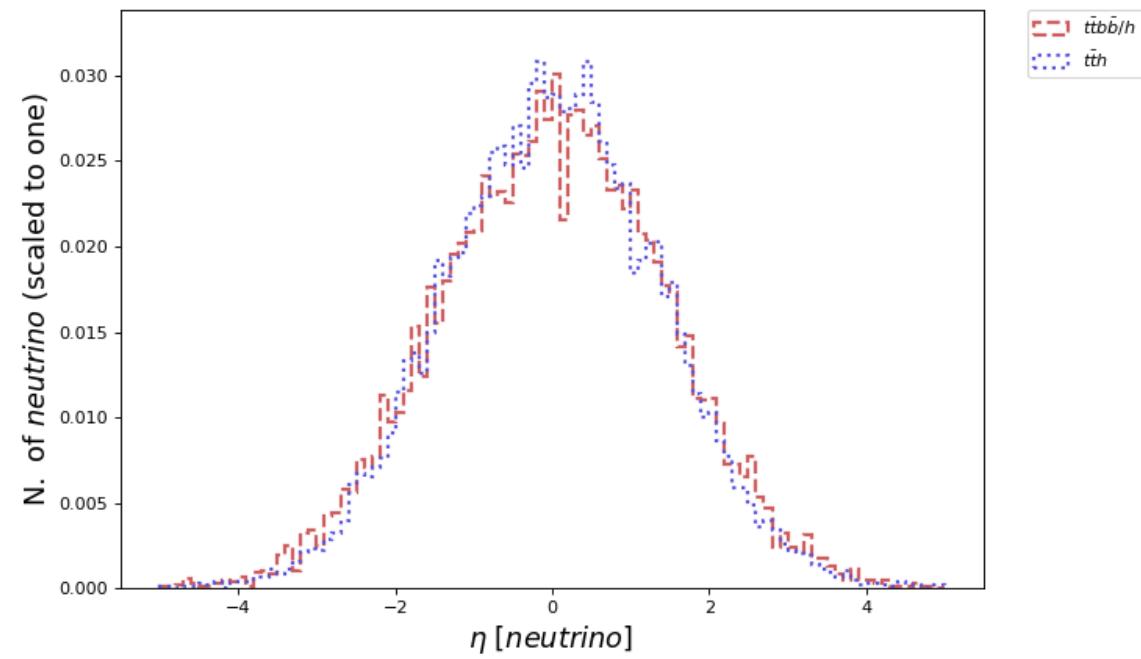
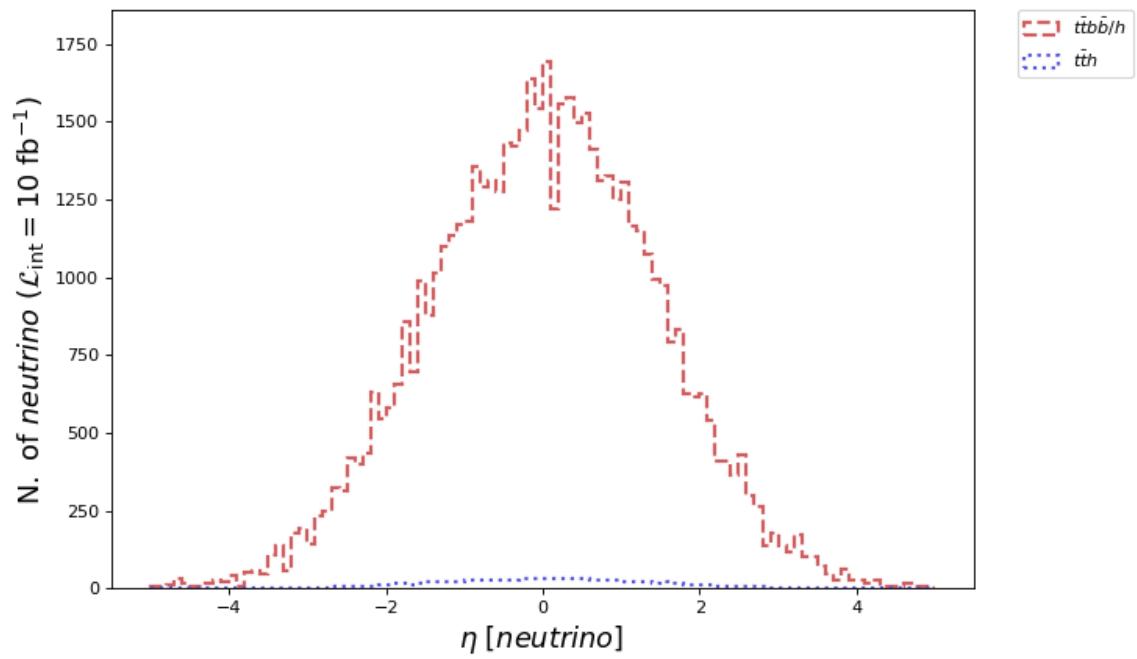


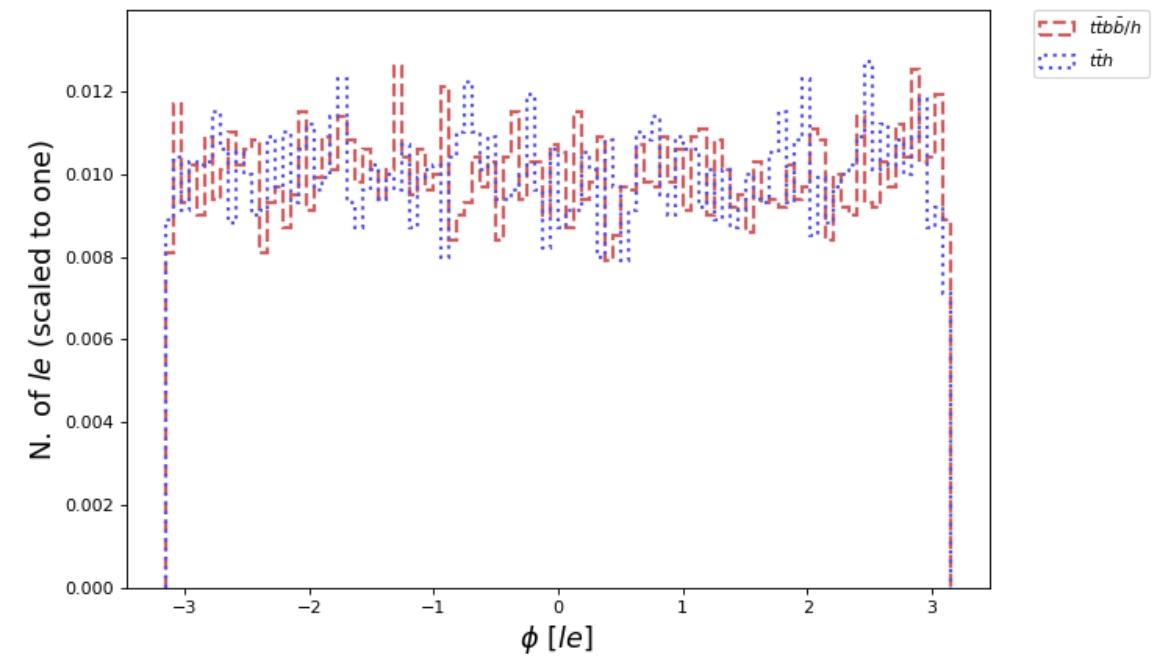
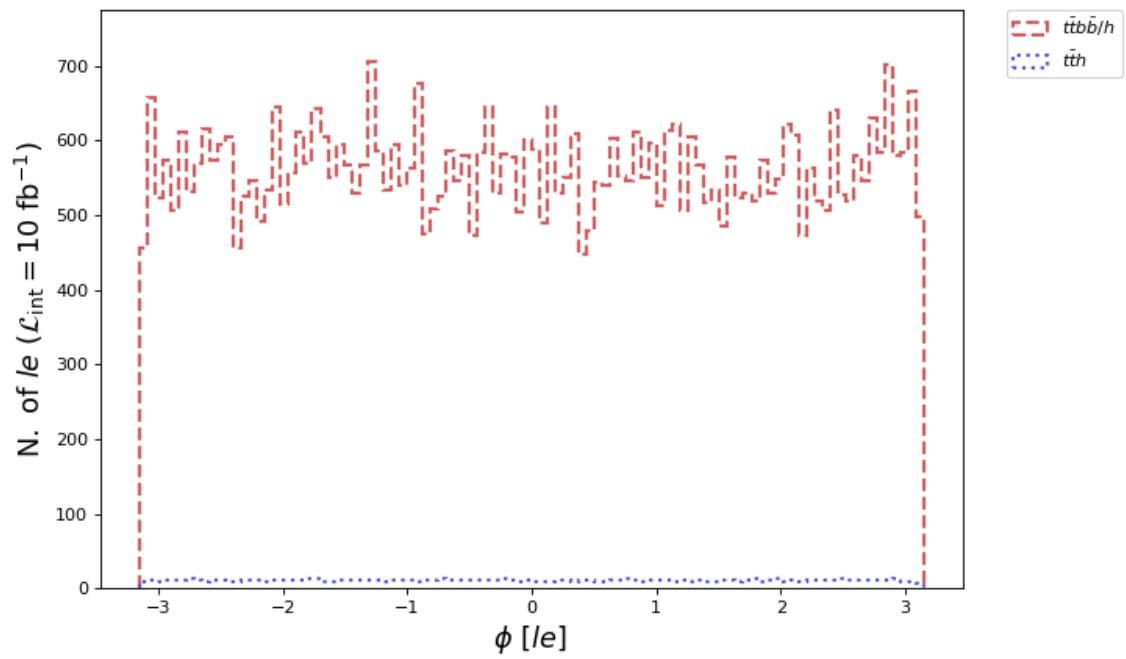
$\eta(j_1)$ 

$$\eta(j_2)$$

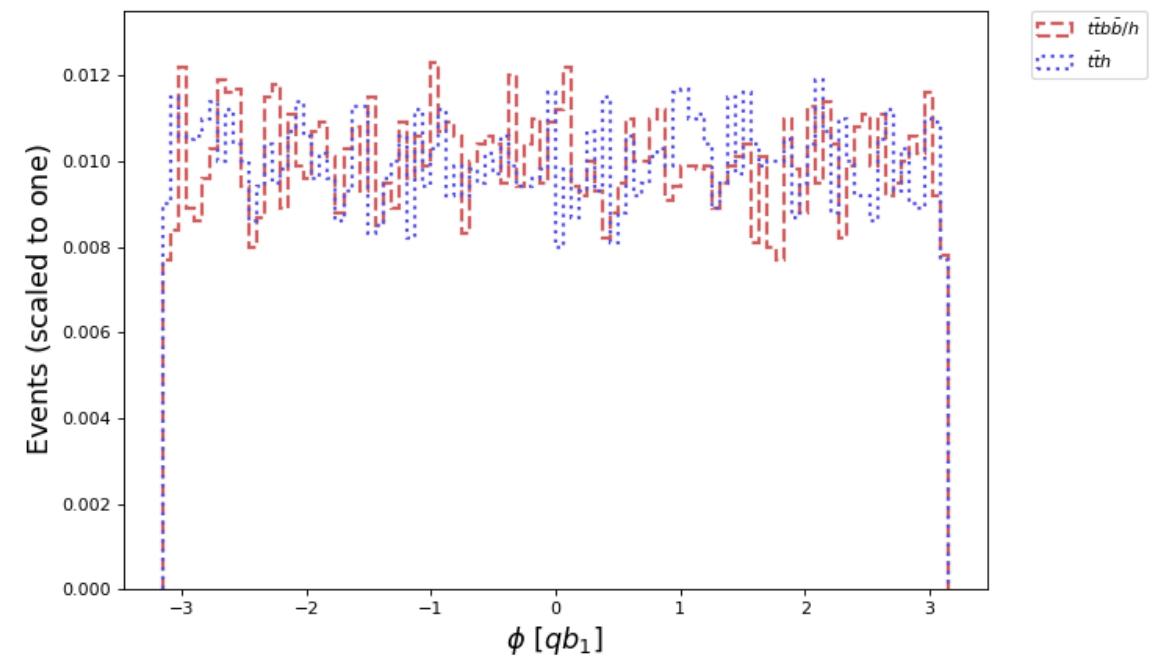
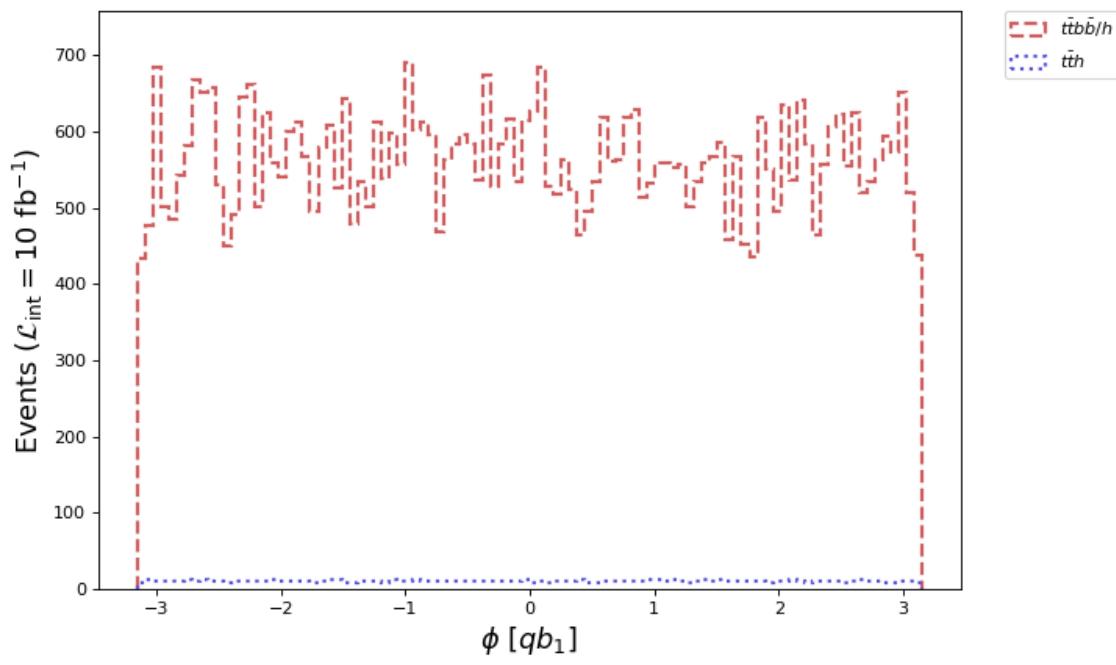


$$\eta(\nu_l)$$

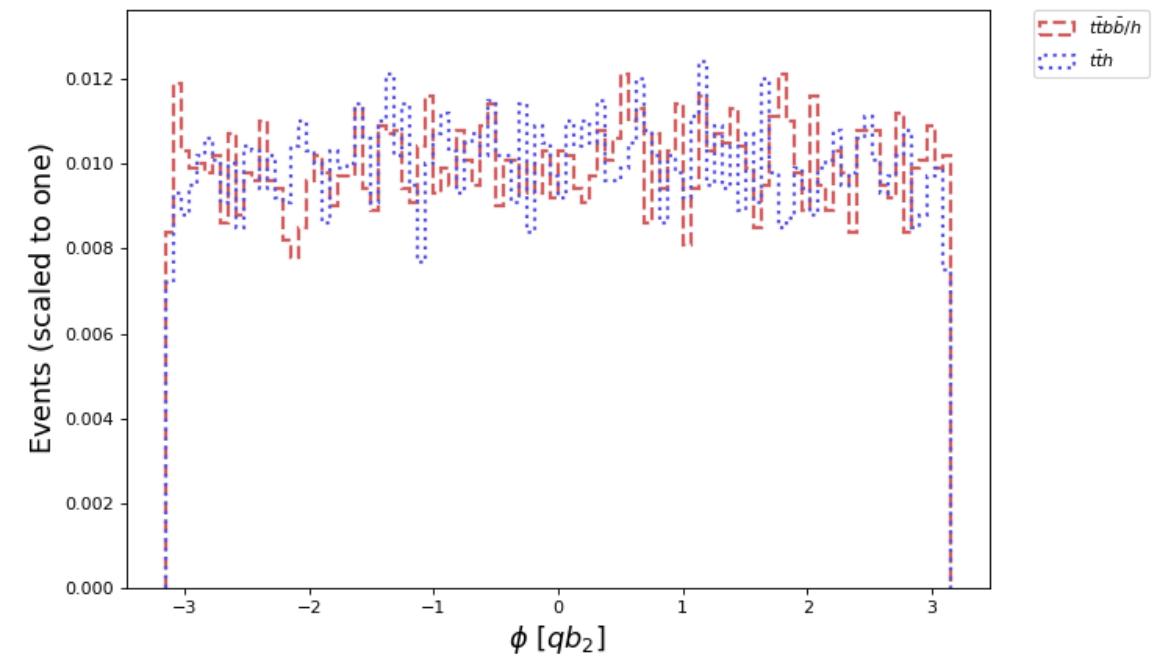
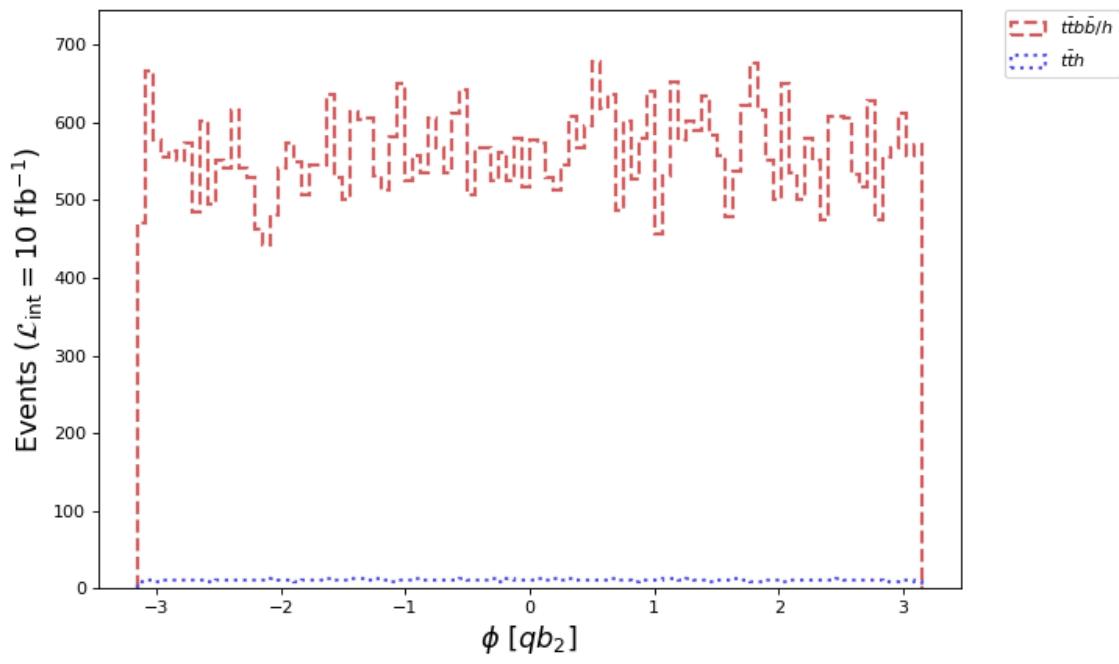


$\phi(l)$ 

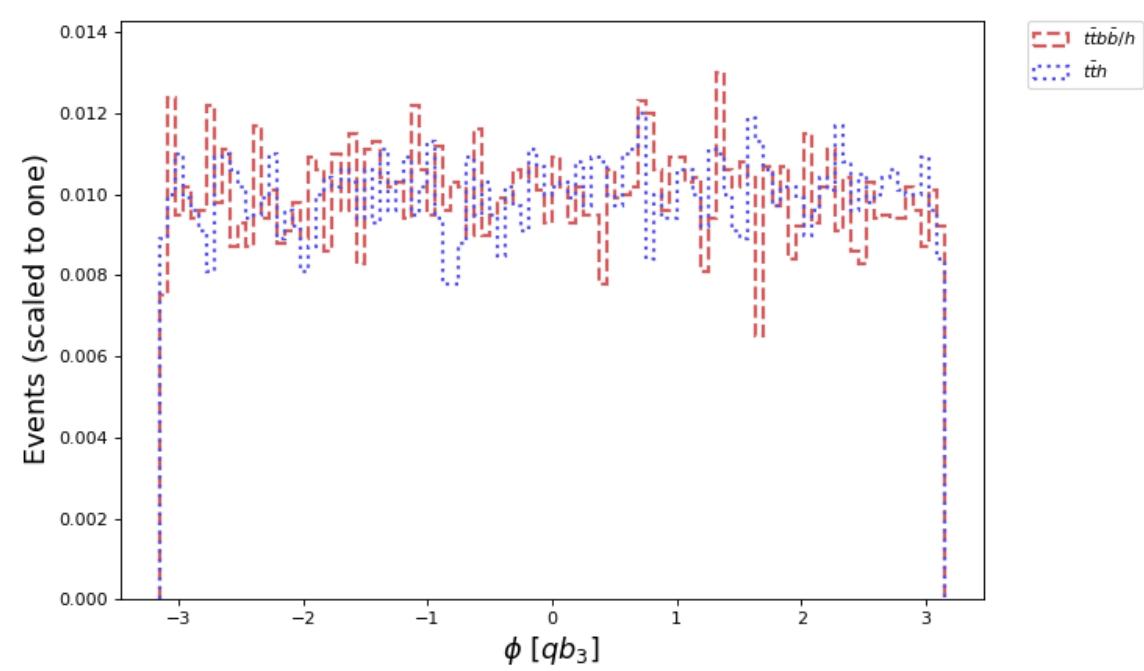
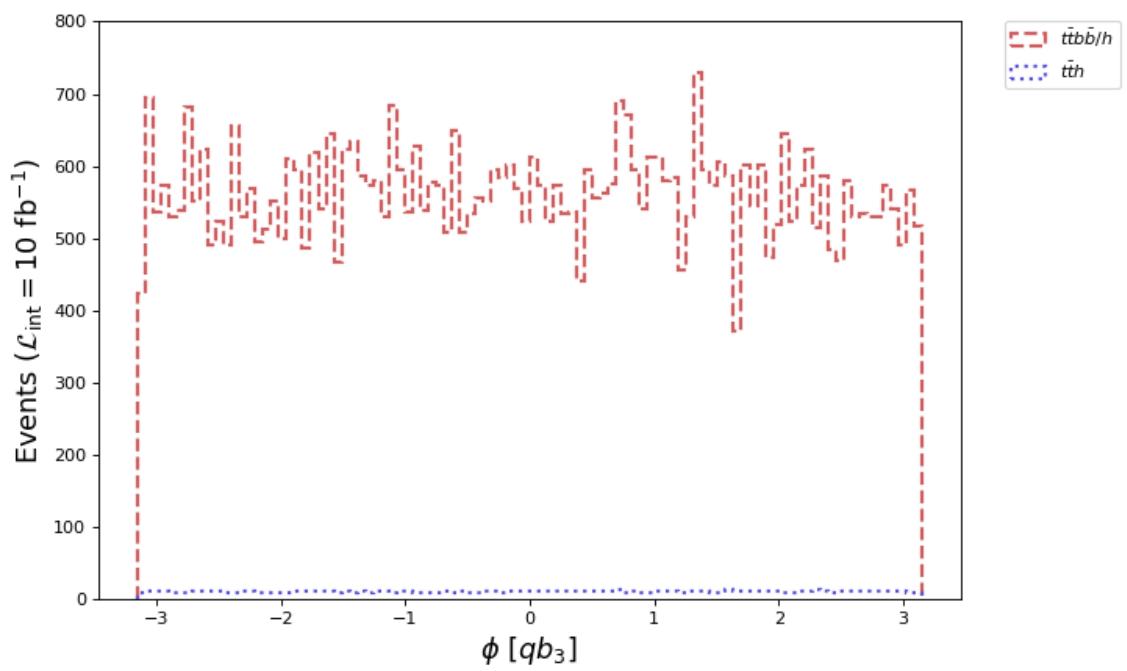
$$\phi(b_1)$$



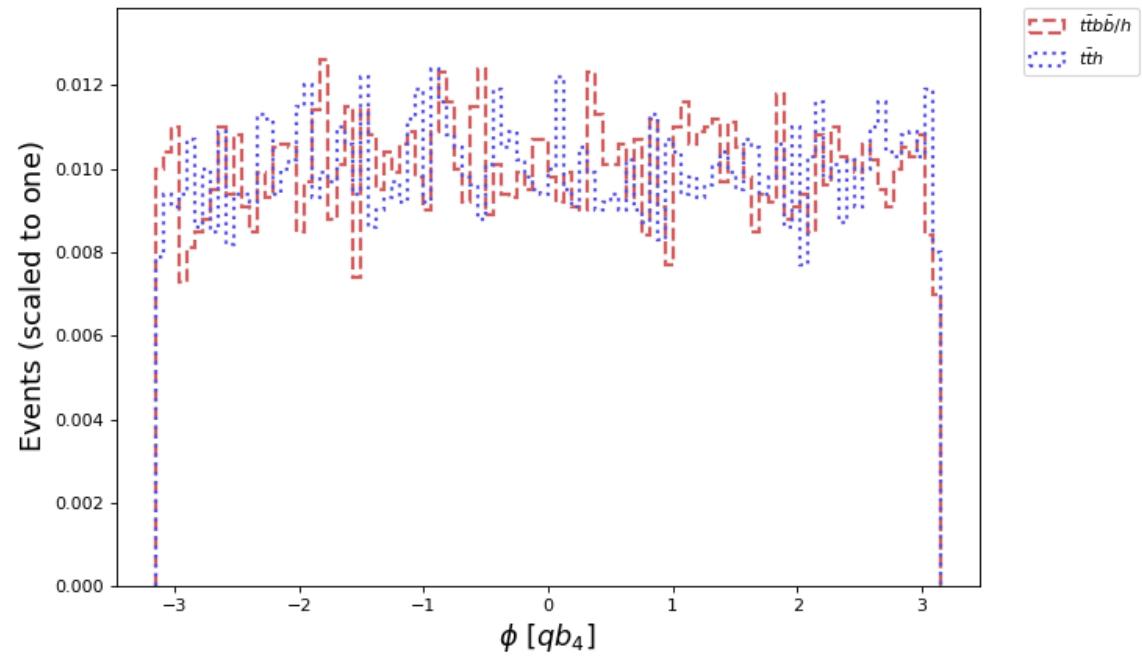
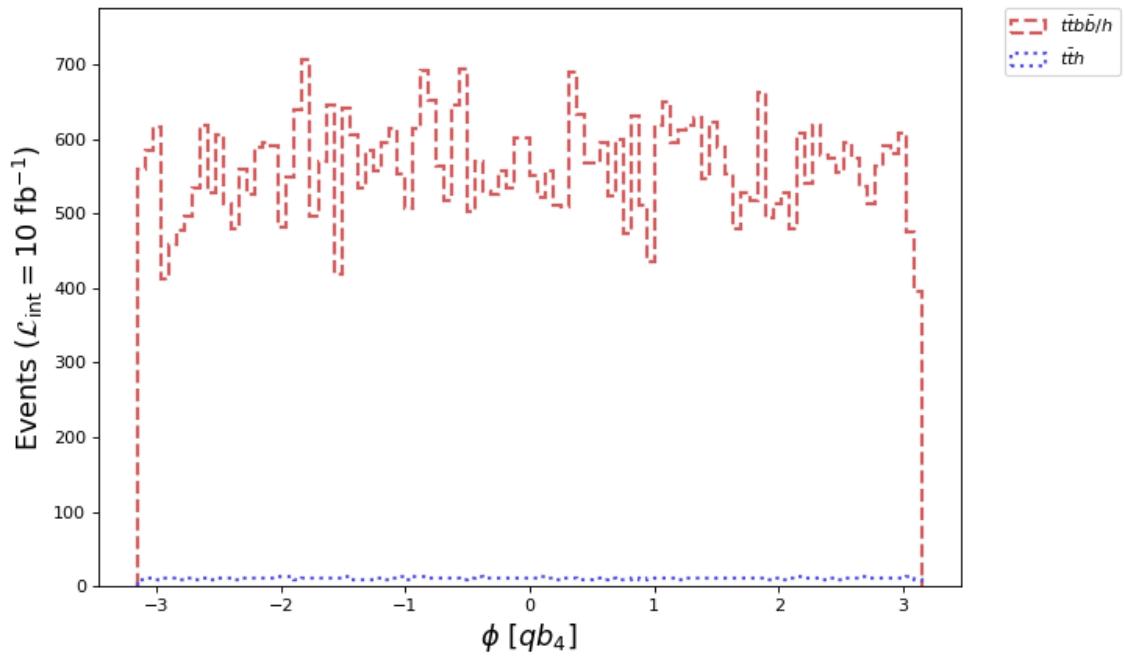
$$\phi(b_2)$$



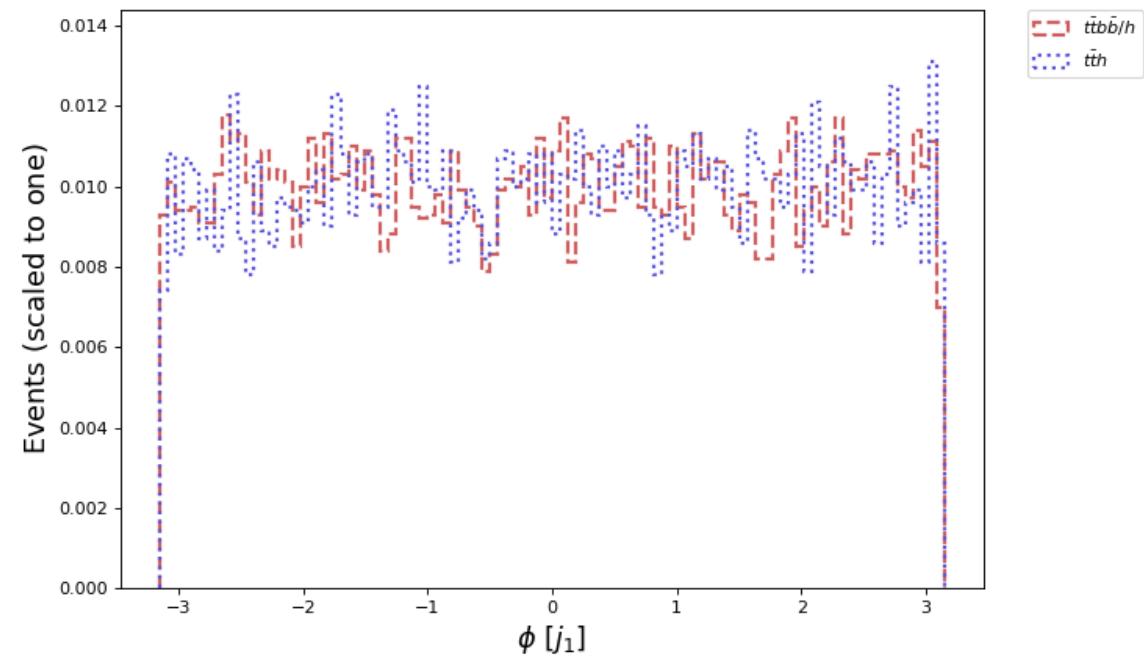
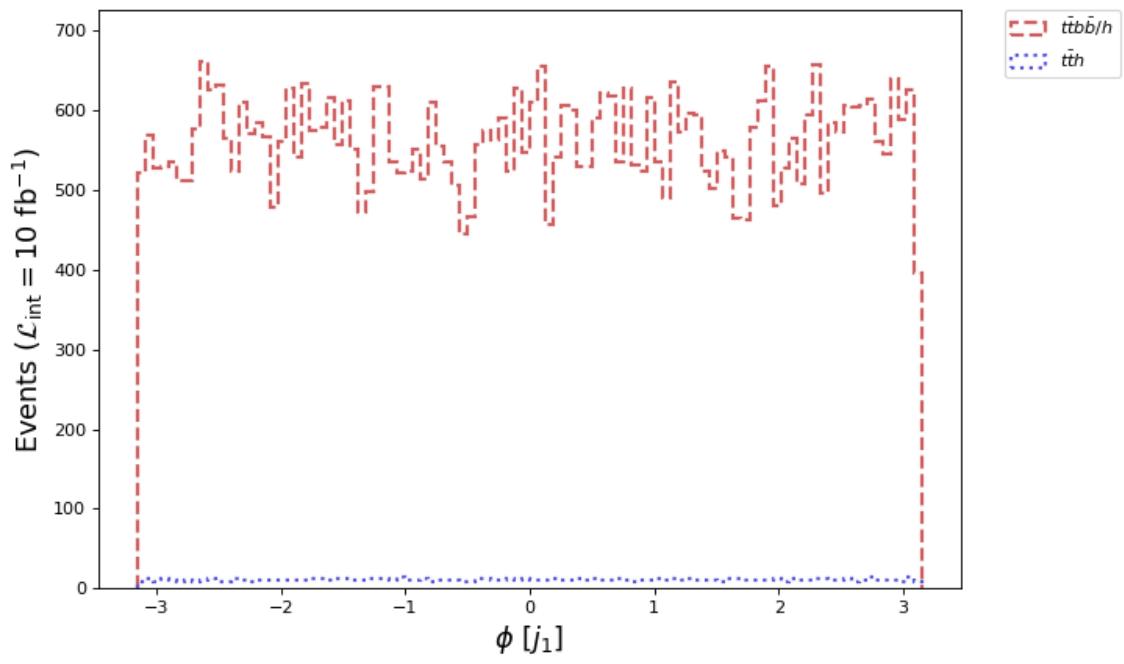
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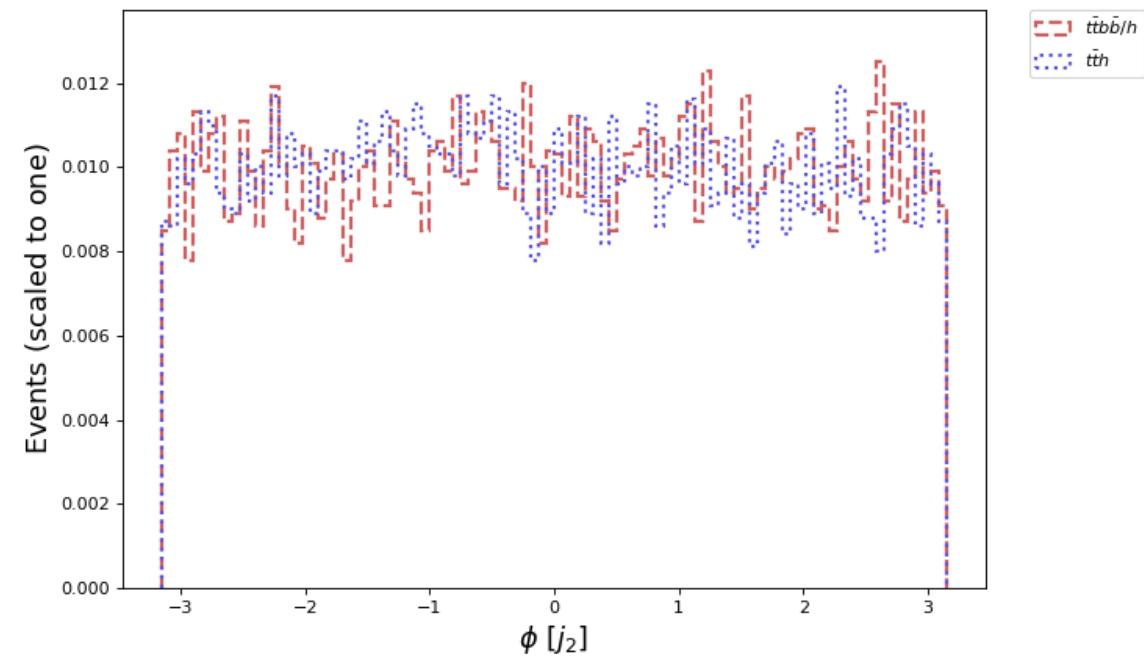
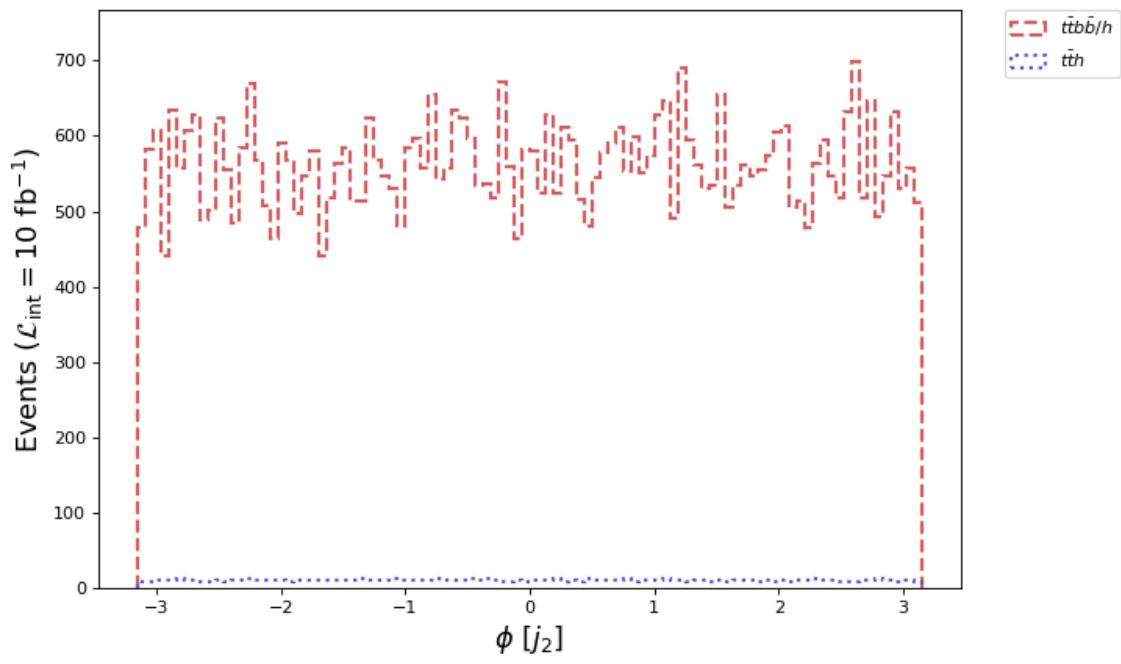
$\phi(b_4)$



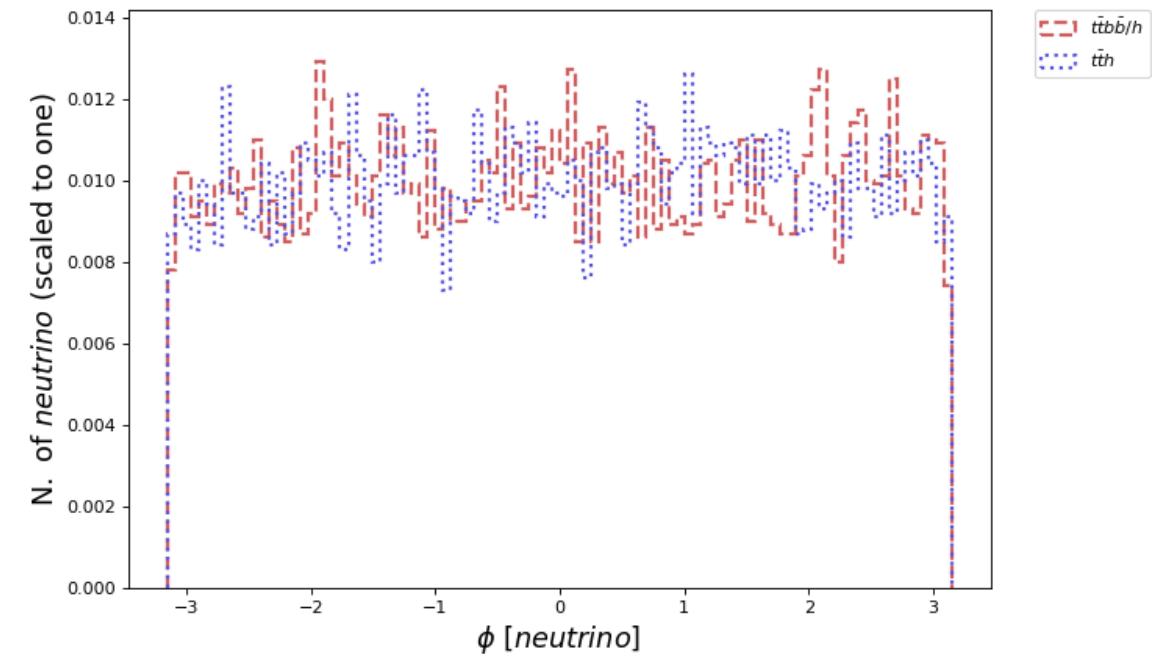
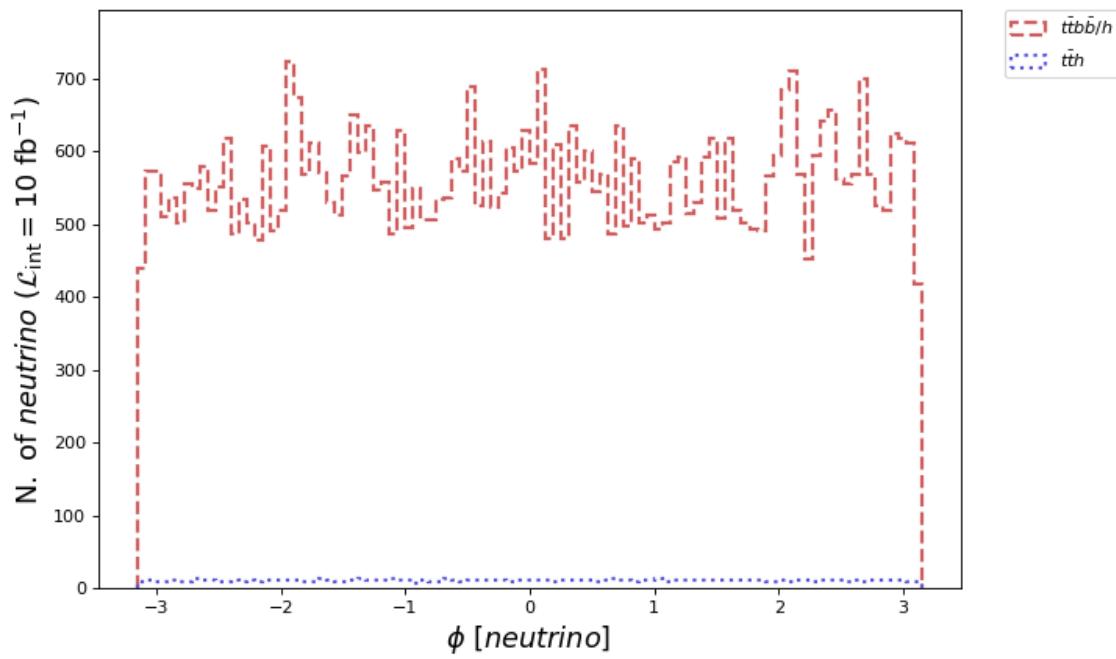
$$\phi(j_1)$$



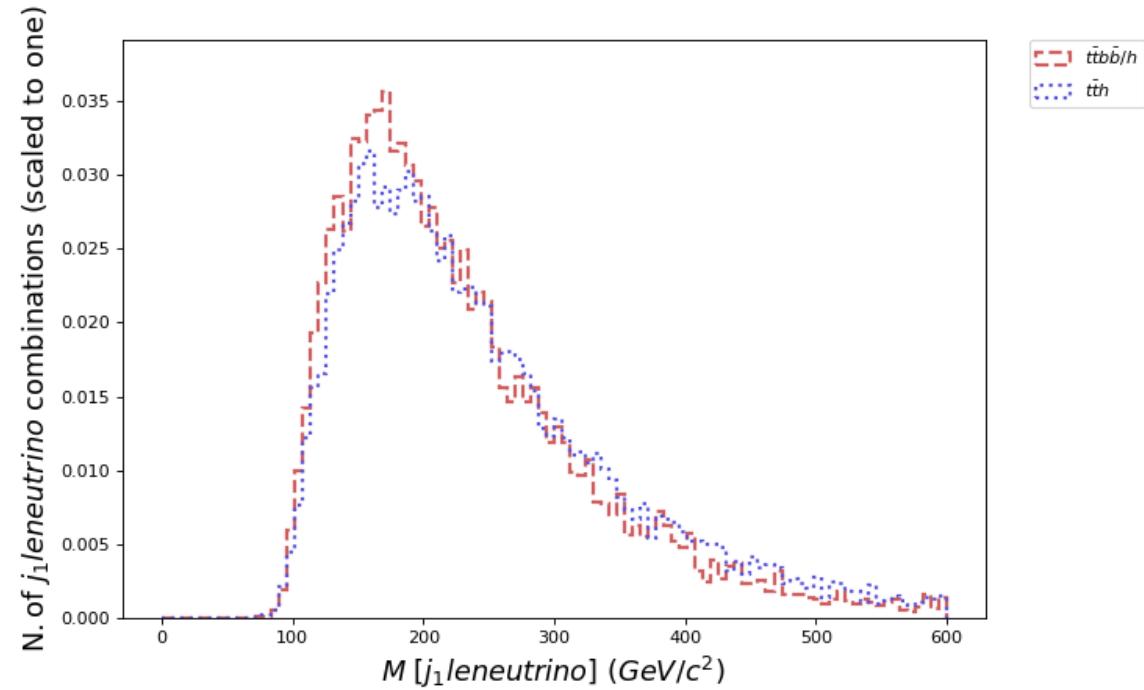
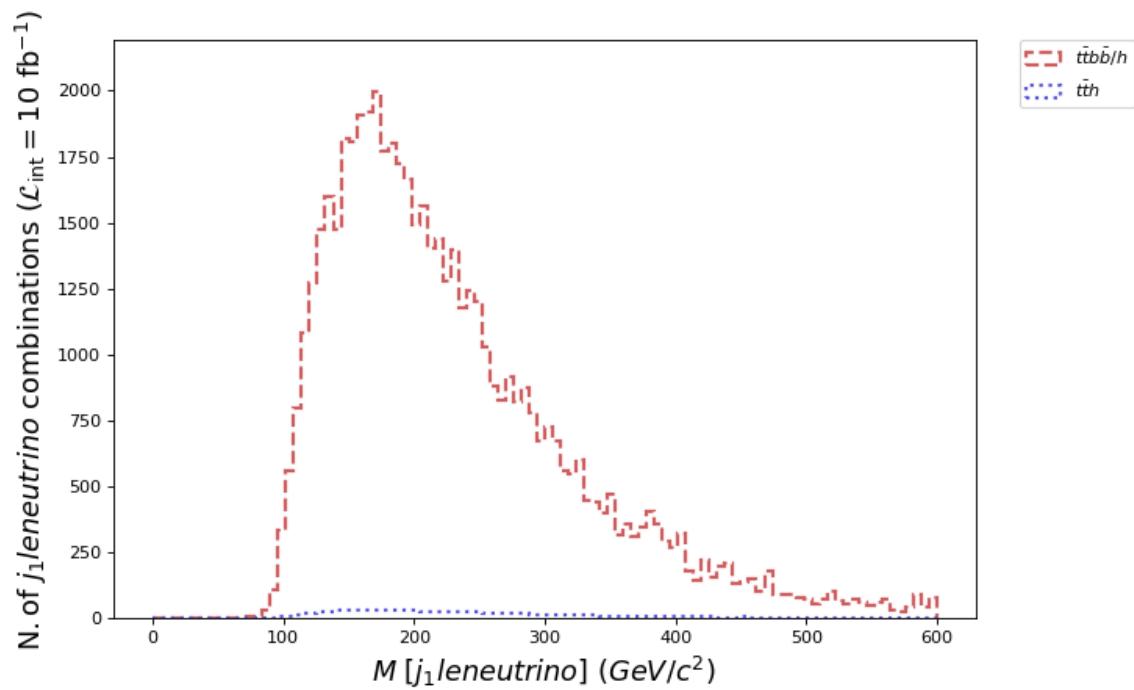
$$\phi(j_2)$$



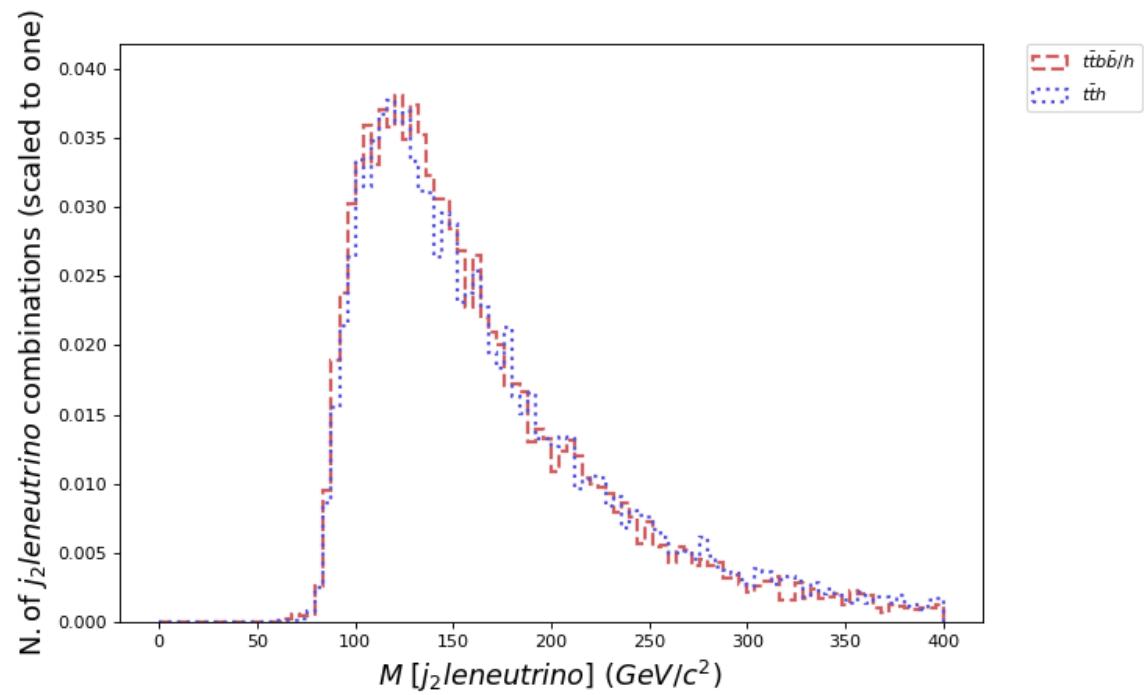
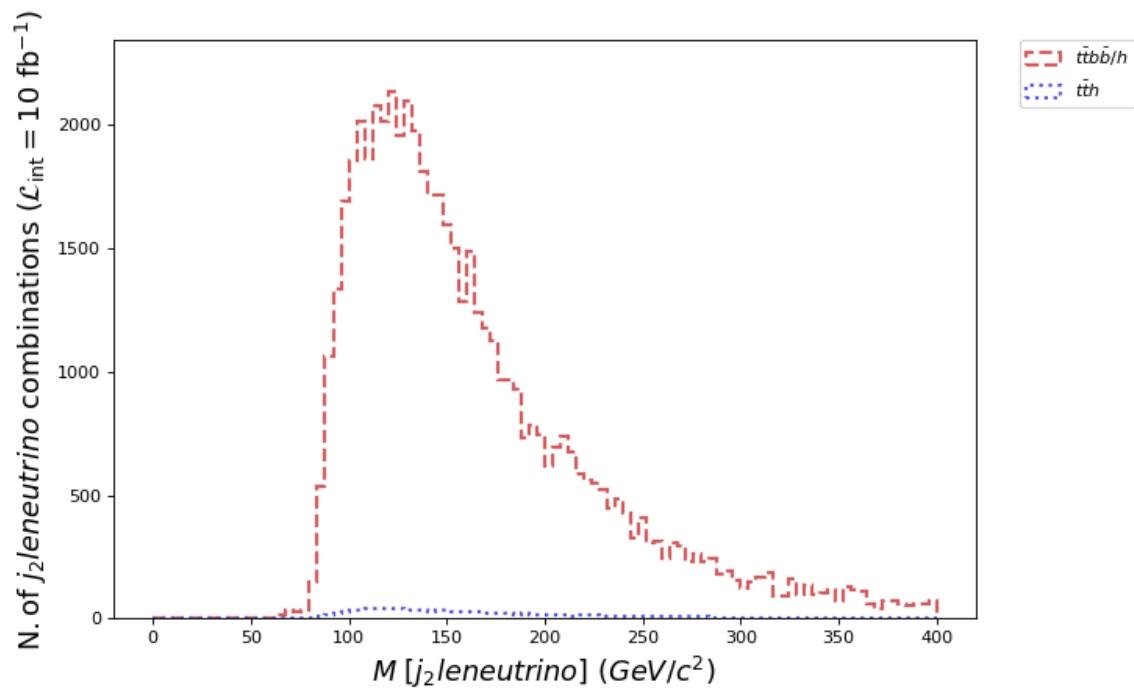
$$\phi(\nu_l)$$



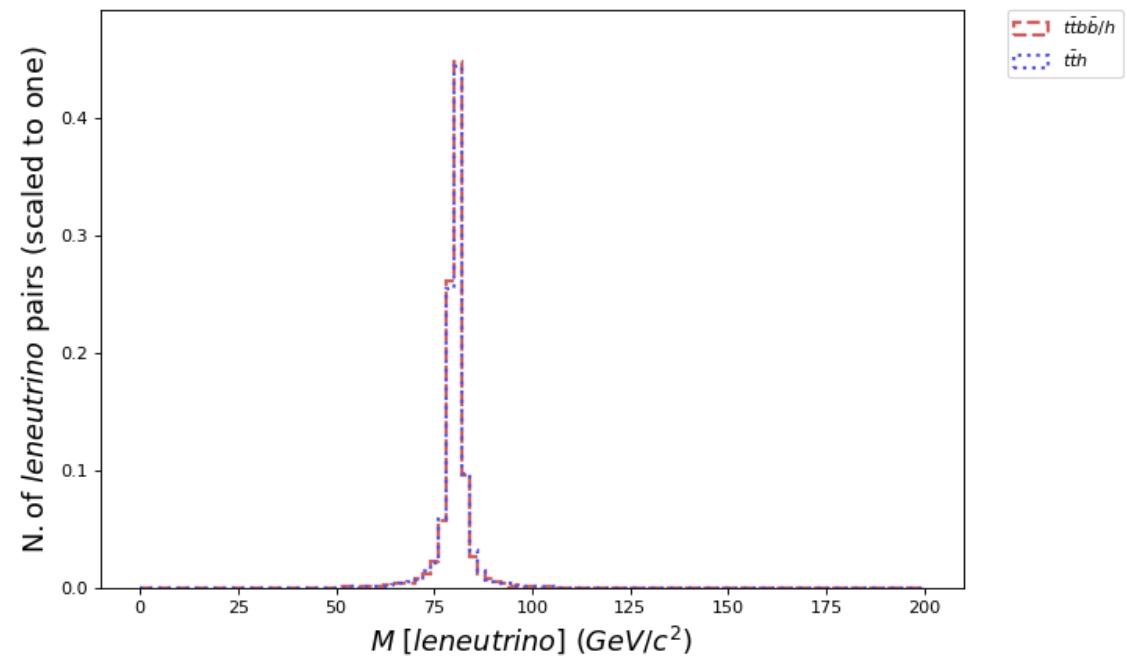
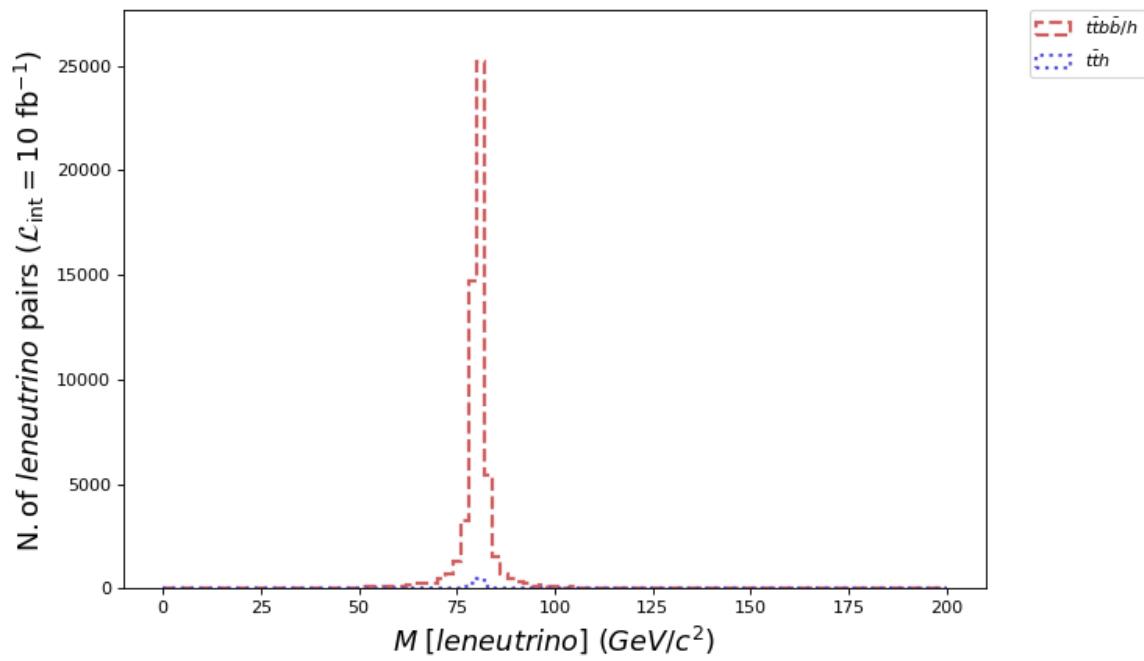
$$M(j_1, l, \nu_l)$$



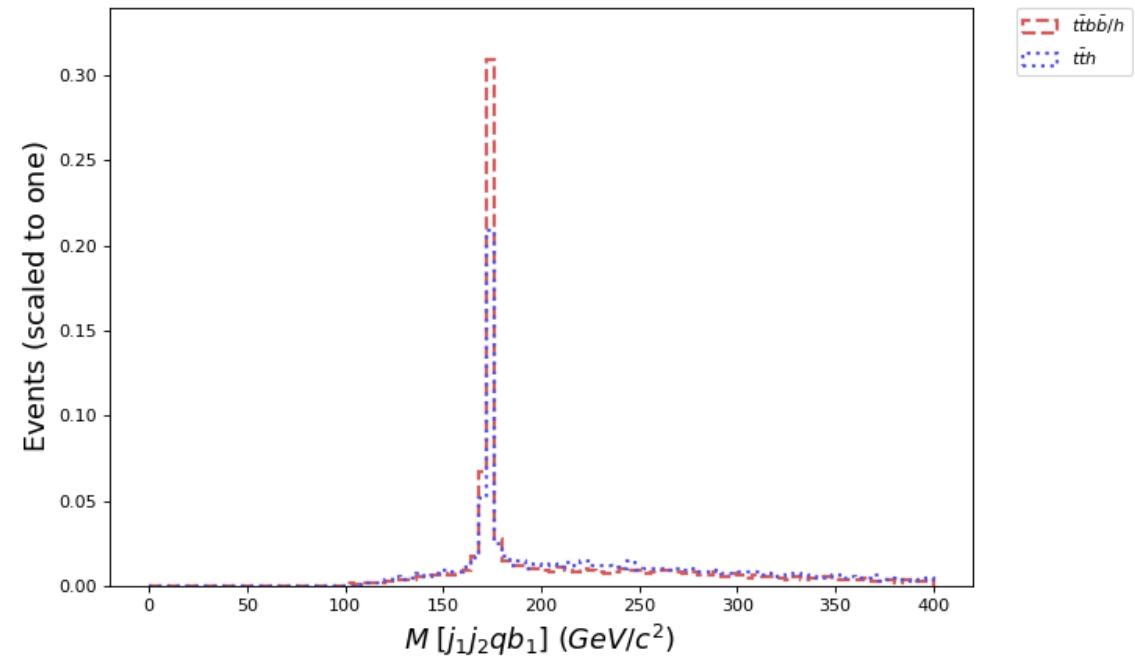
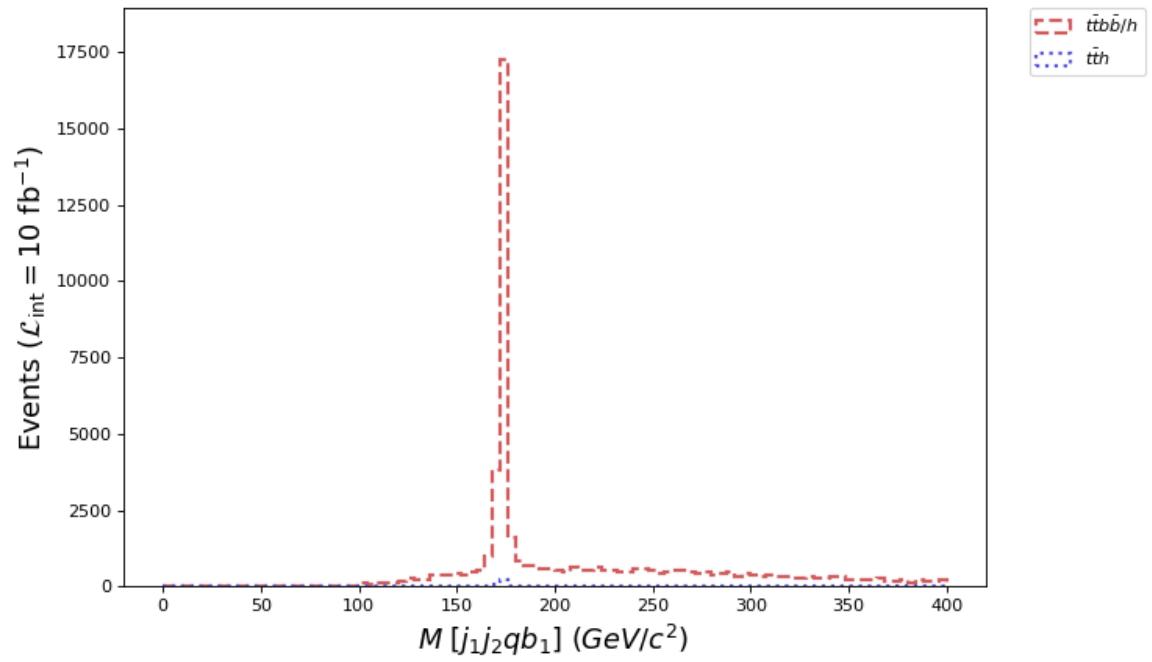
$$M(j_2, l, \nu_l)$$



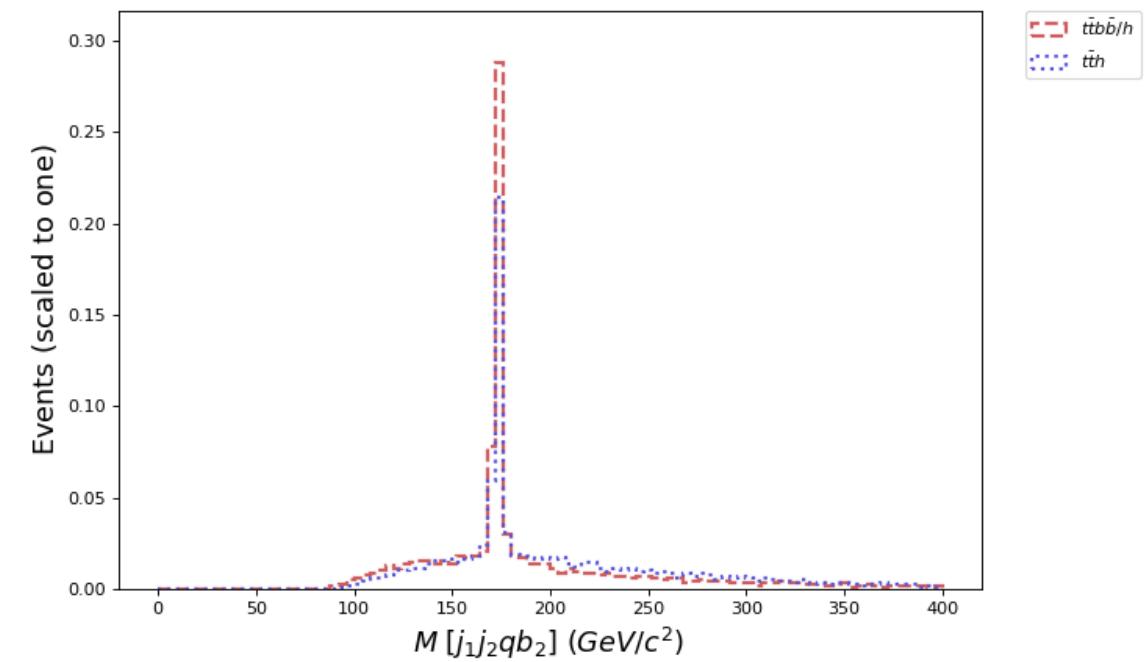
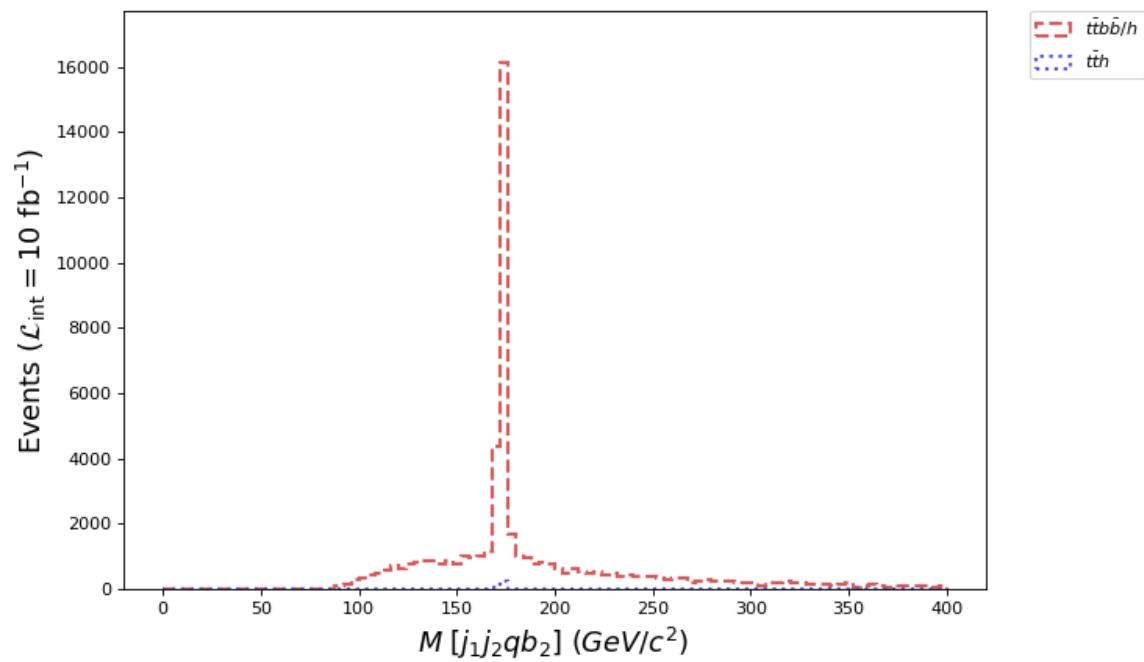
$$M(l, \nu_l)$$



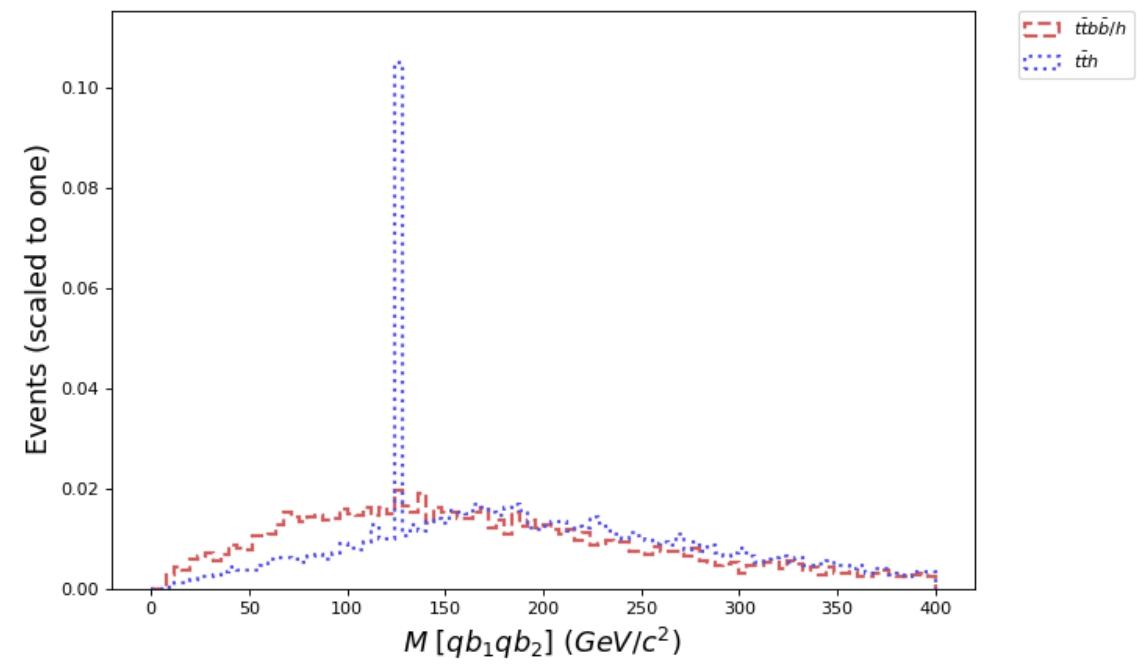
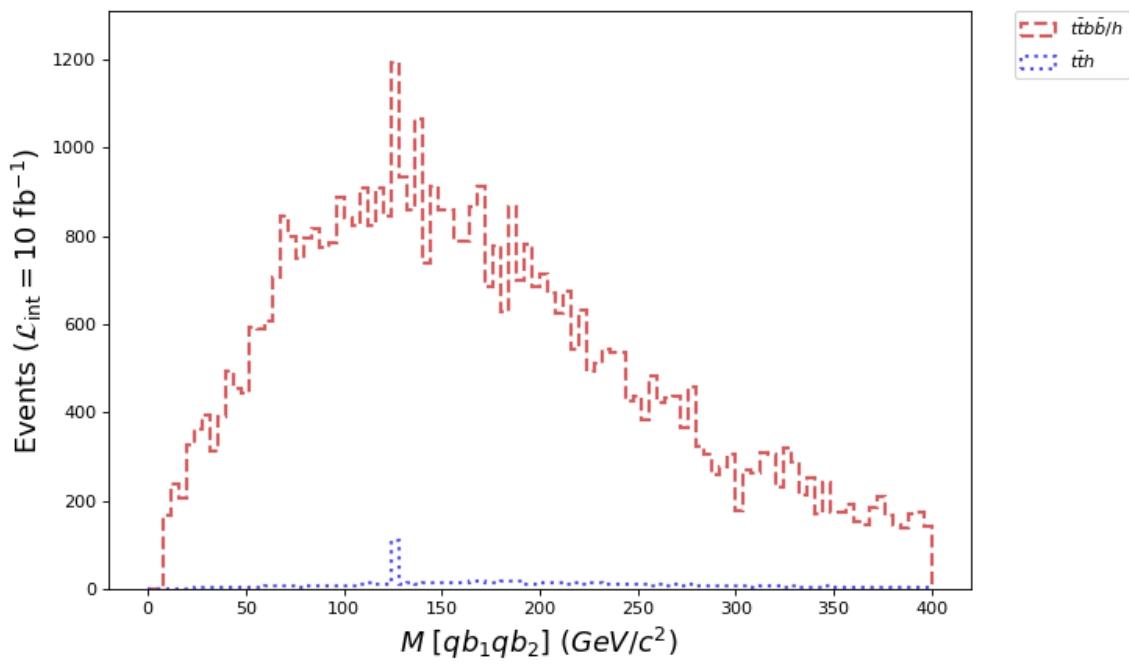
$$M(j_1, j_2, b_1)$$



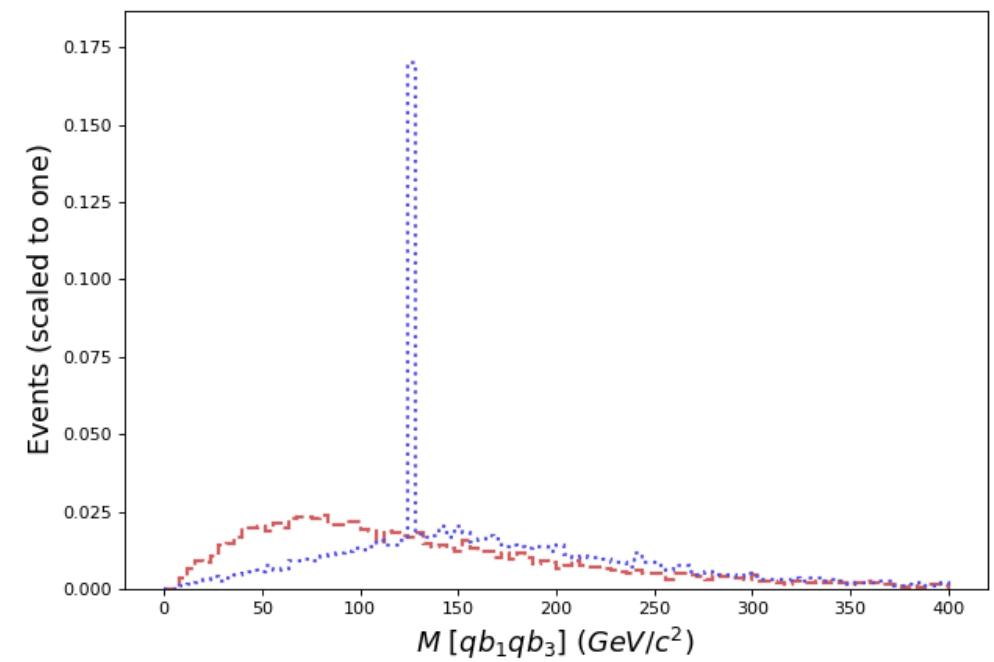
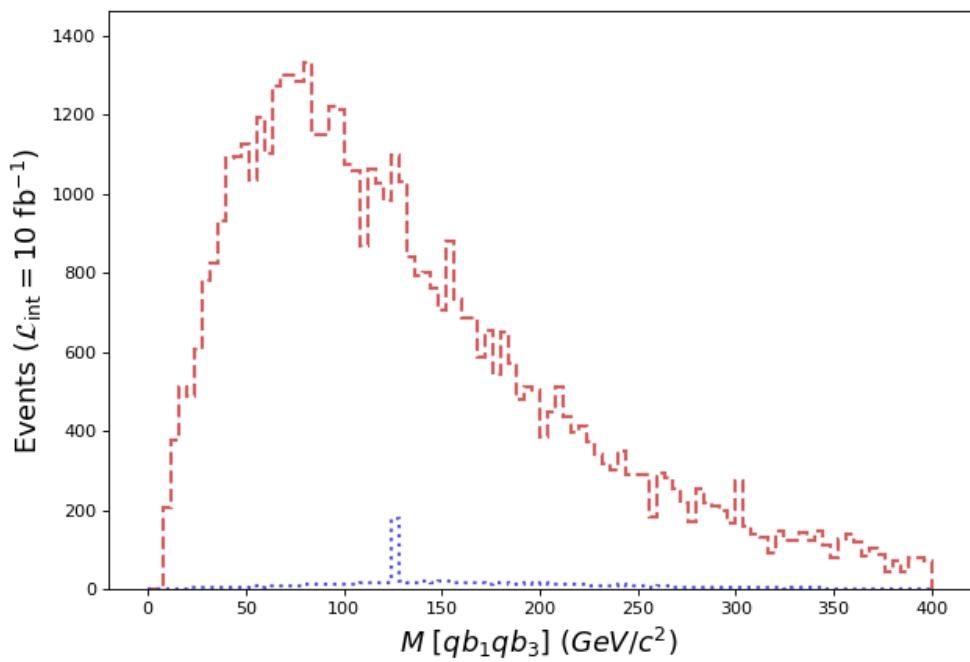
$$M(j_1, j_2, b_2)$$



$$M(b_1, b_2)$$

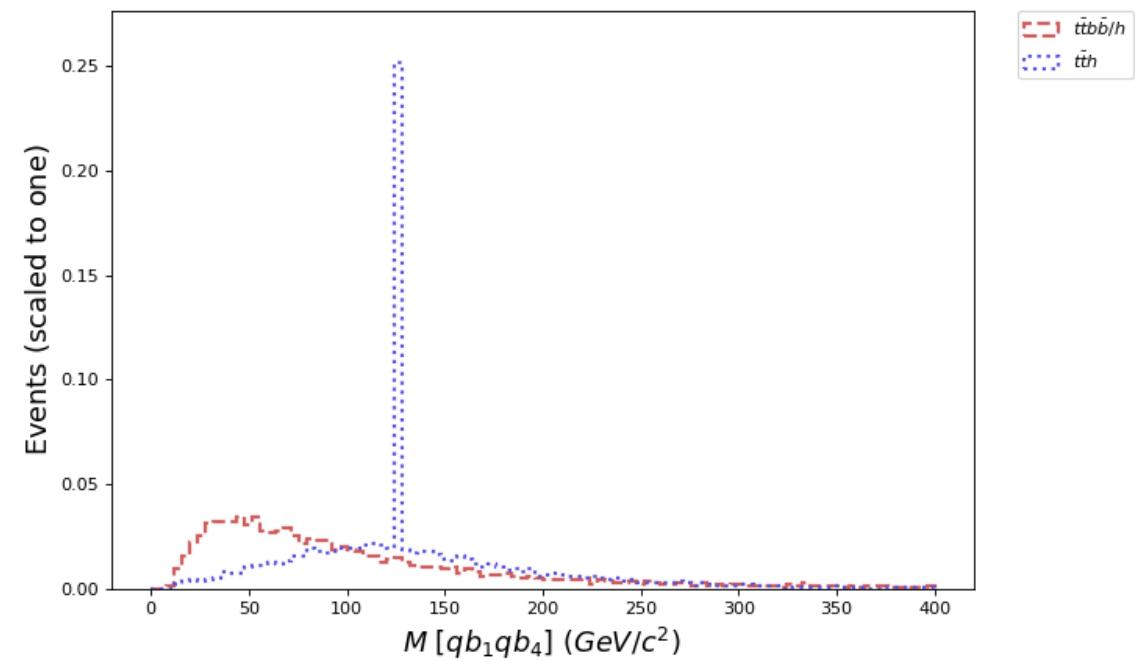
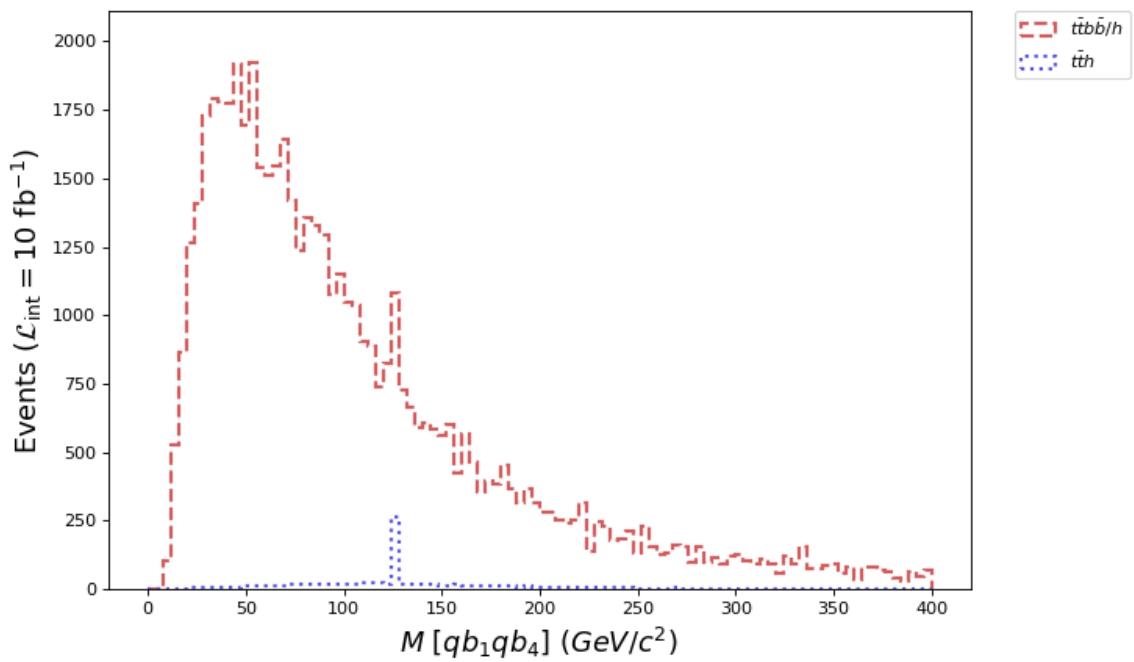


$$M(b_1, b_3)$$

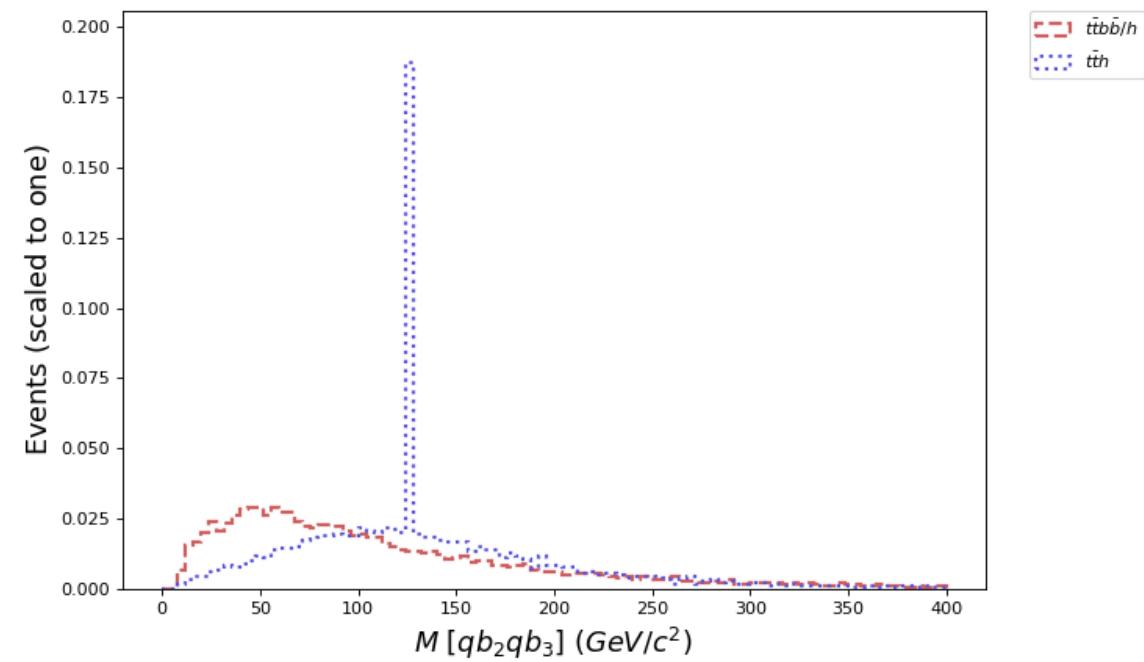
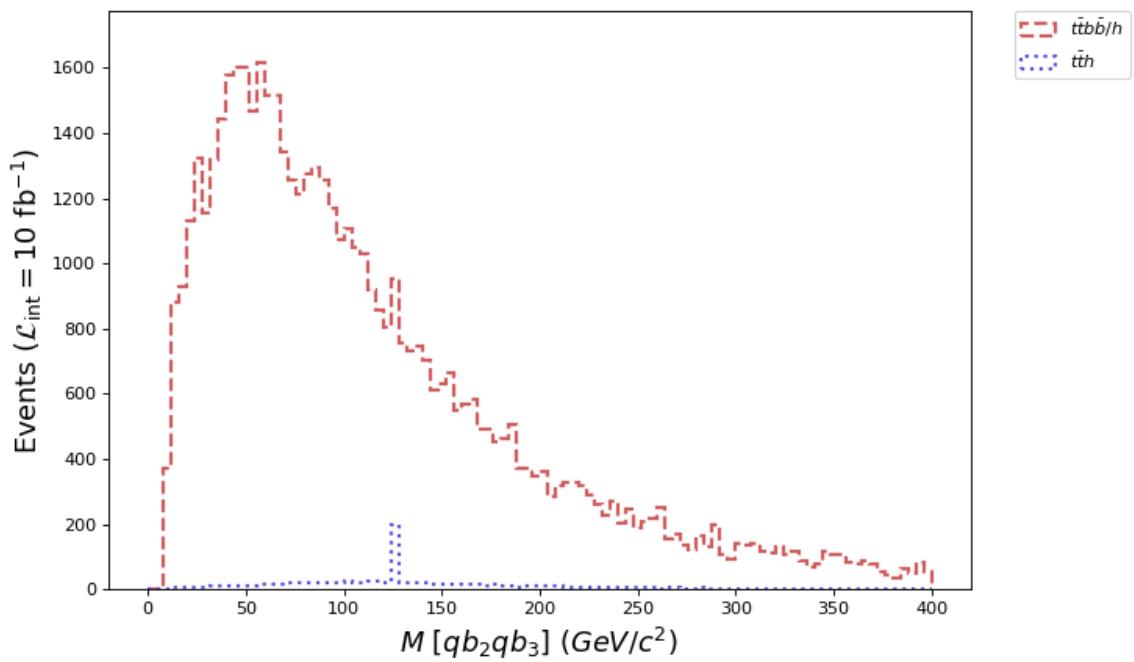


$t\bar{t}b\bar{b}/h$
 $t\bar{t}h$

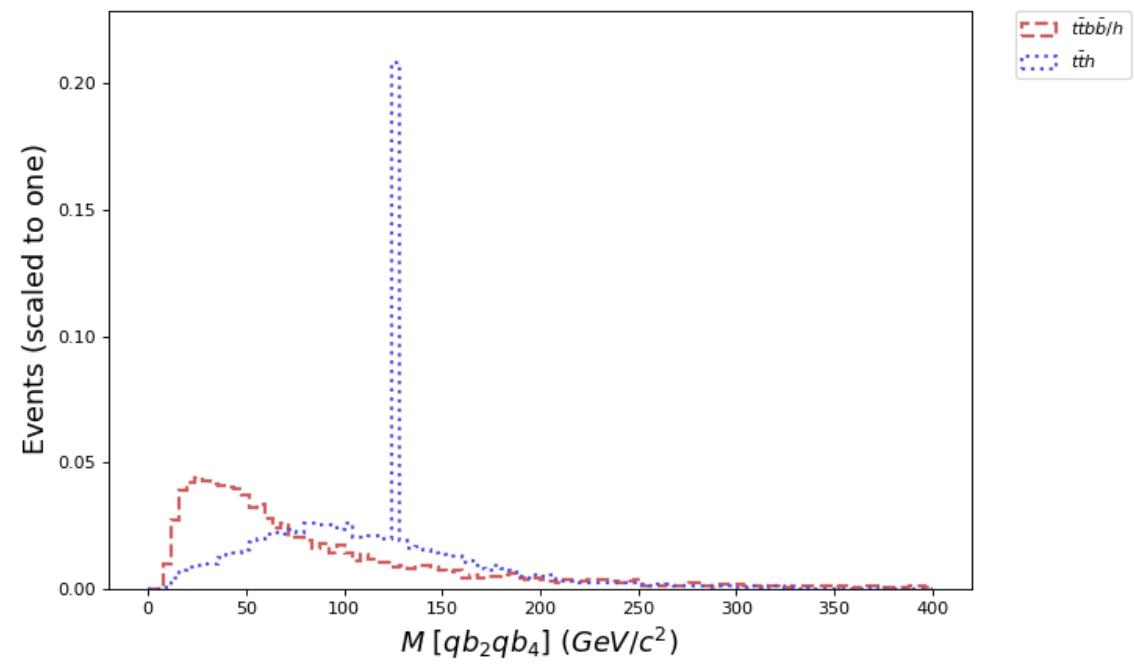
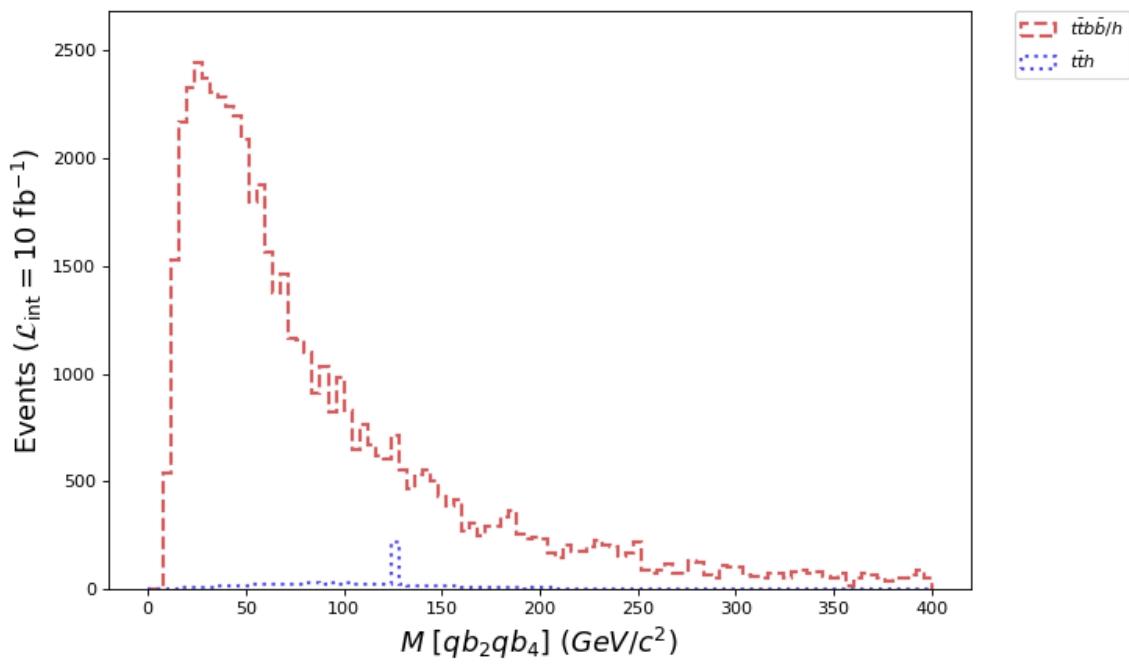
$$M(b_1, b_4)$$



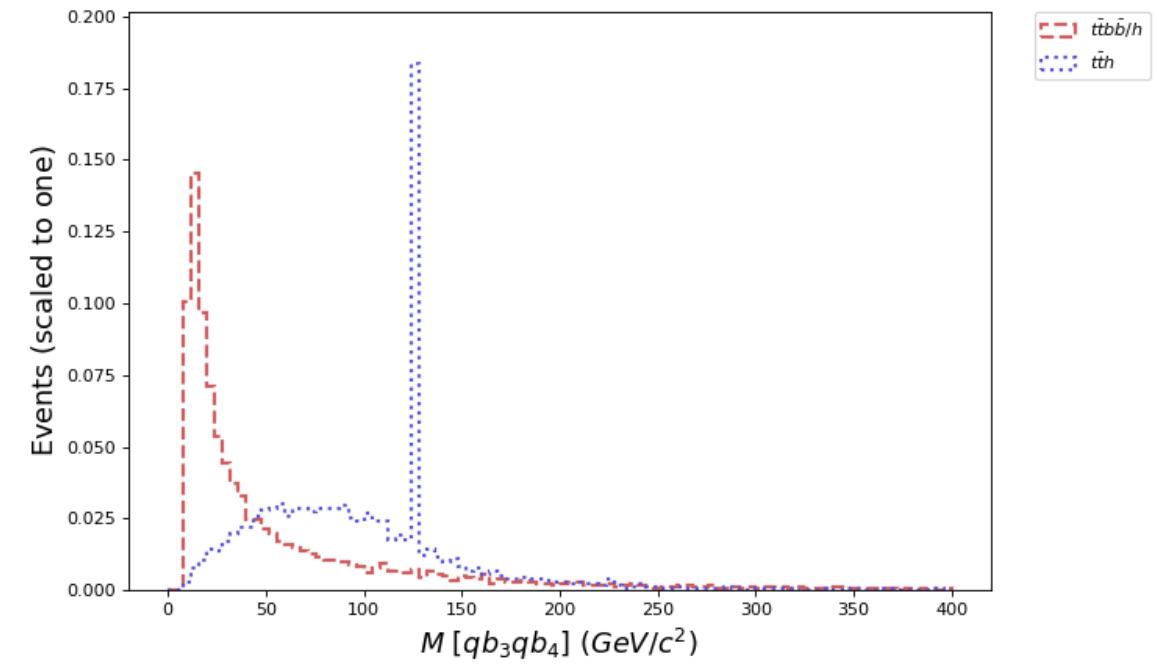
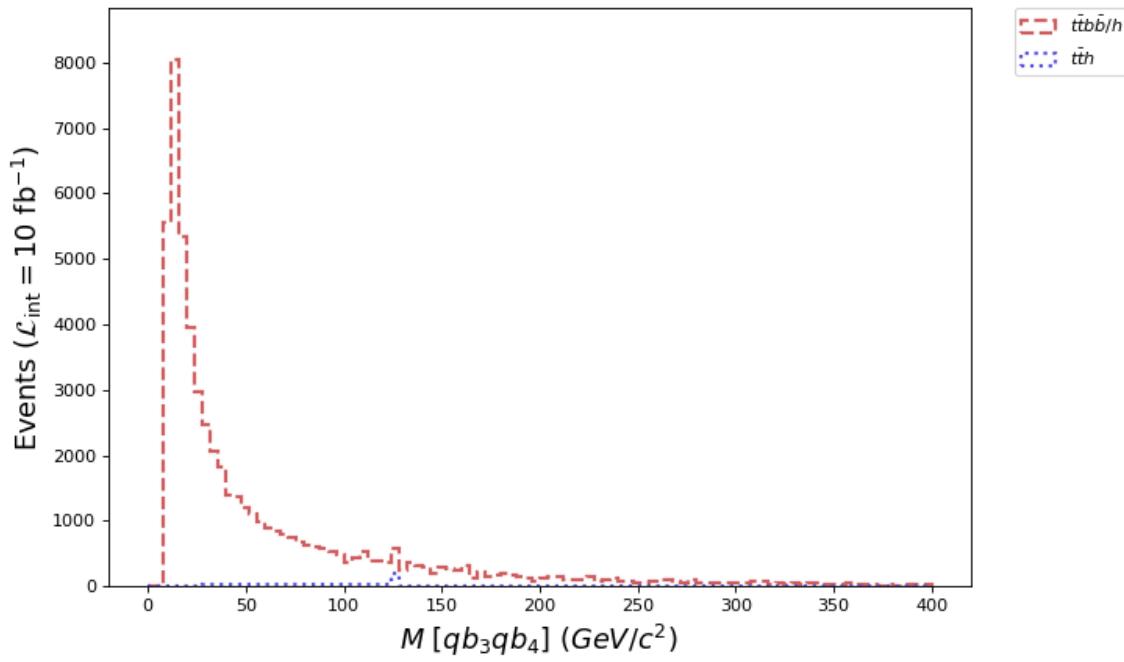
$$M(b_2, b_3)$$



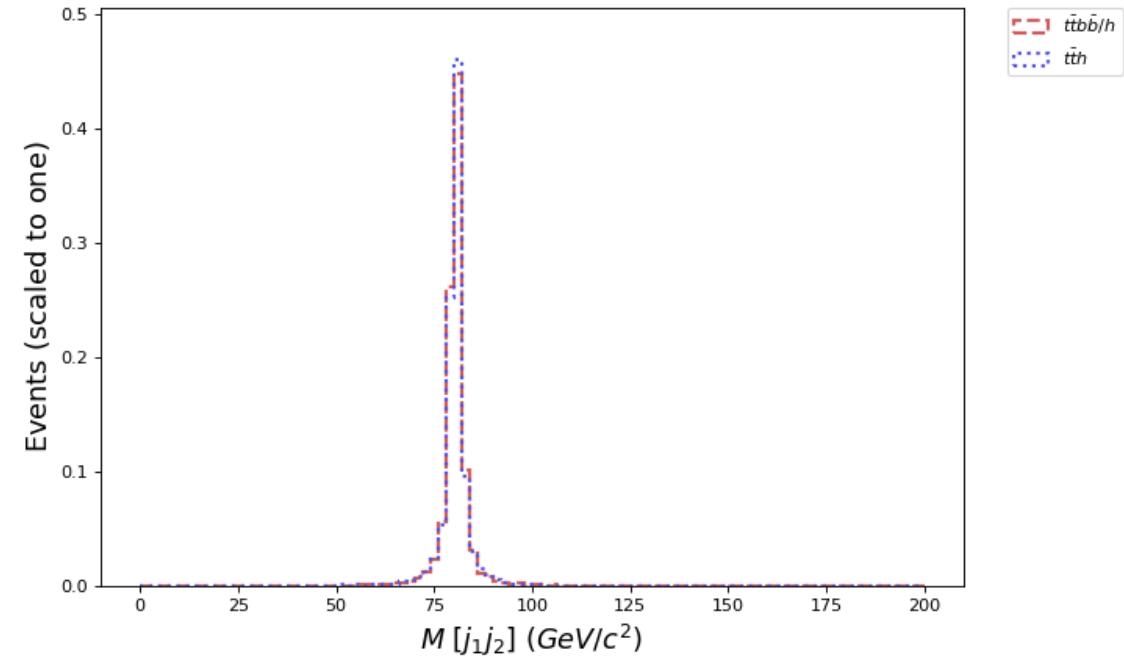
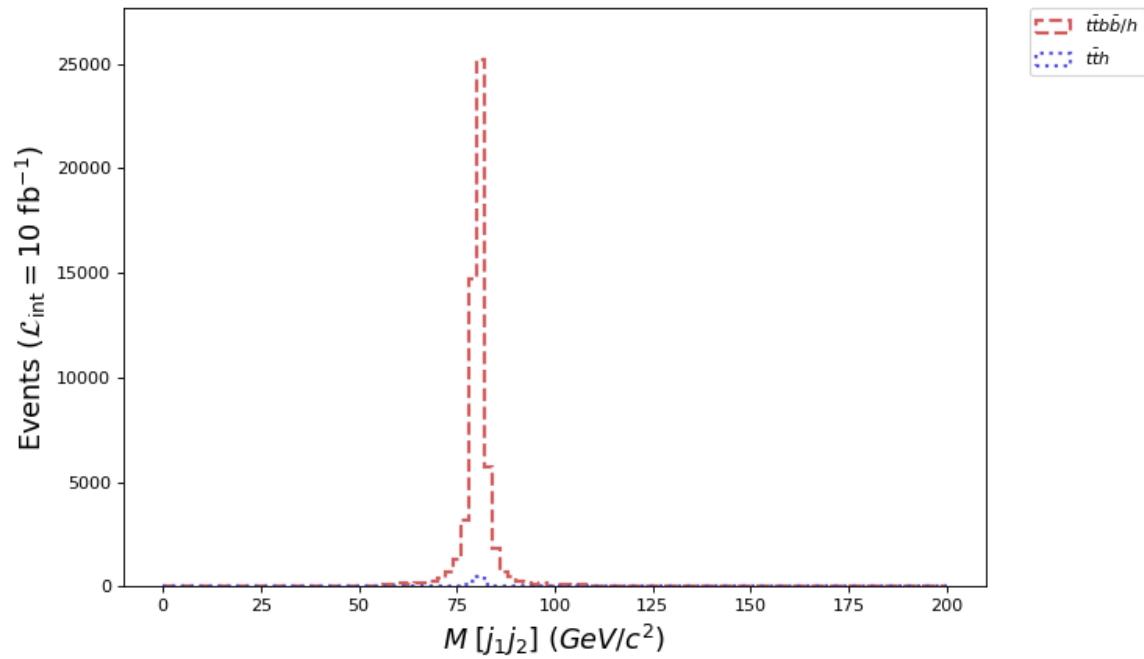
$$M(b_2, b_4)$$



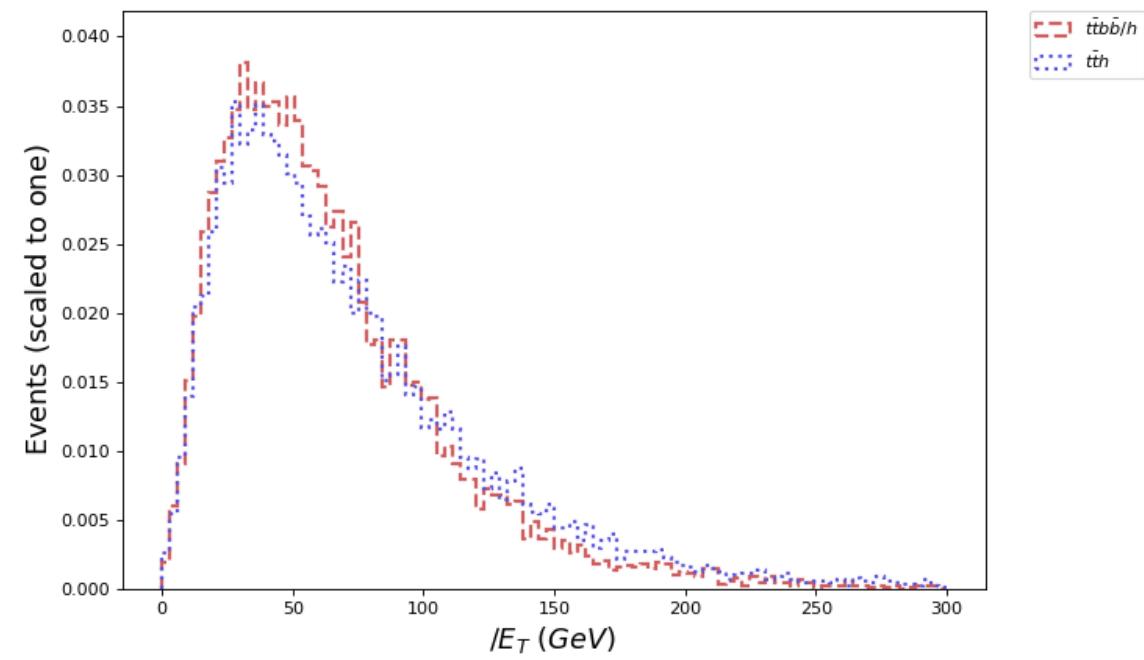
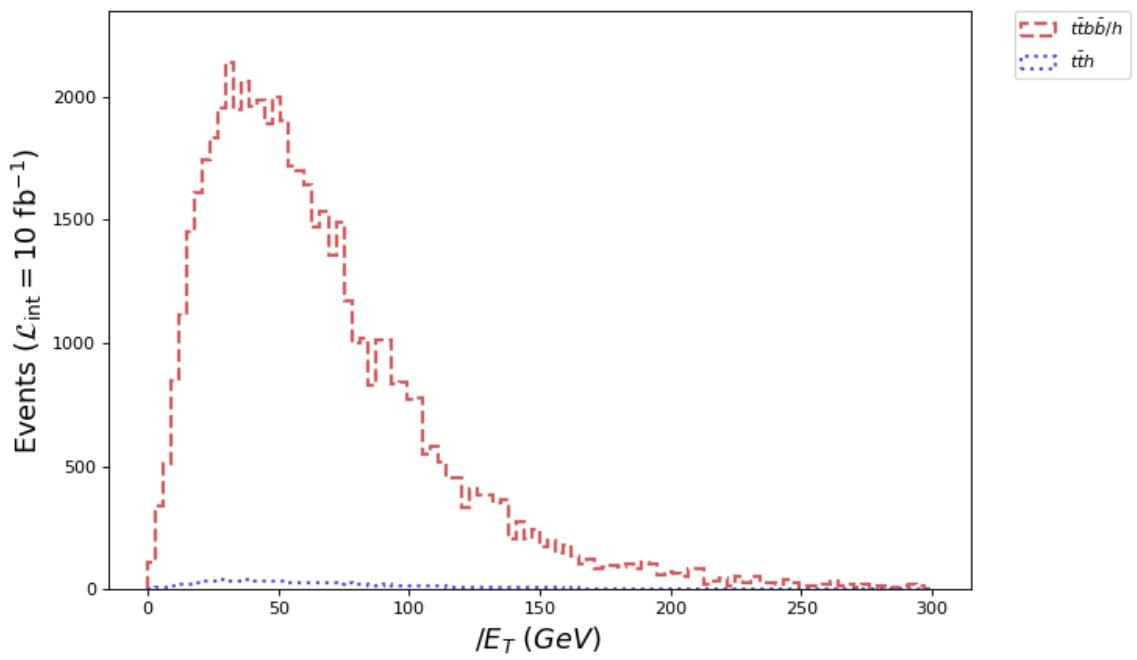
$$M(b_3, b_4)$$



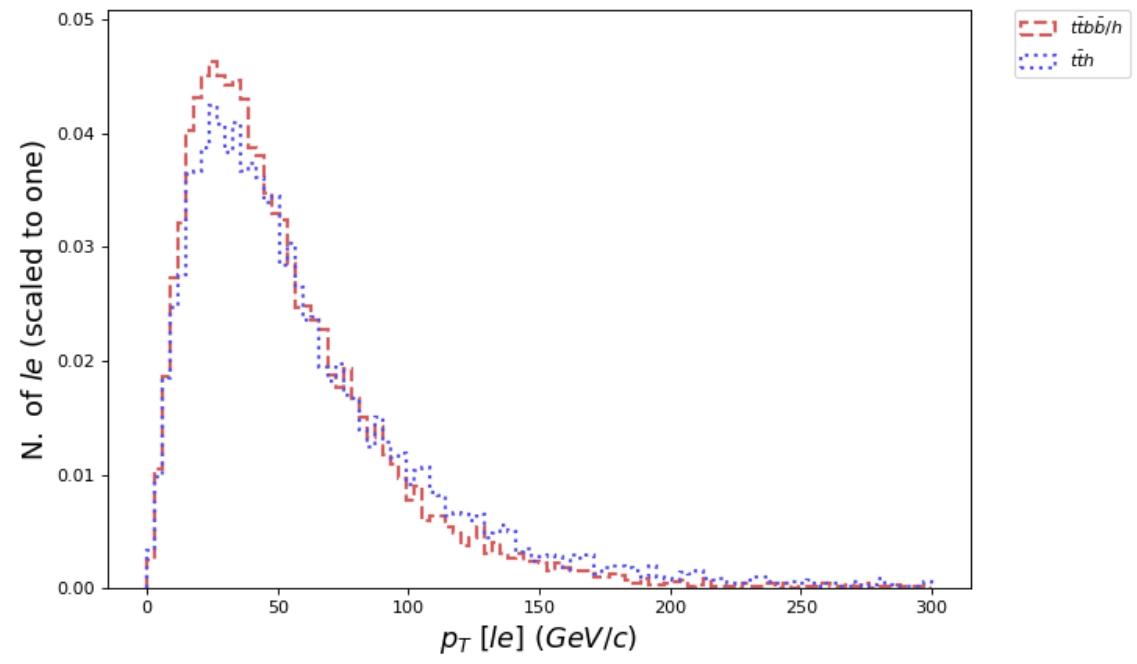
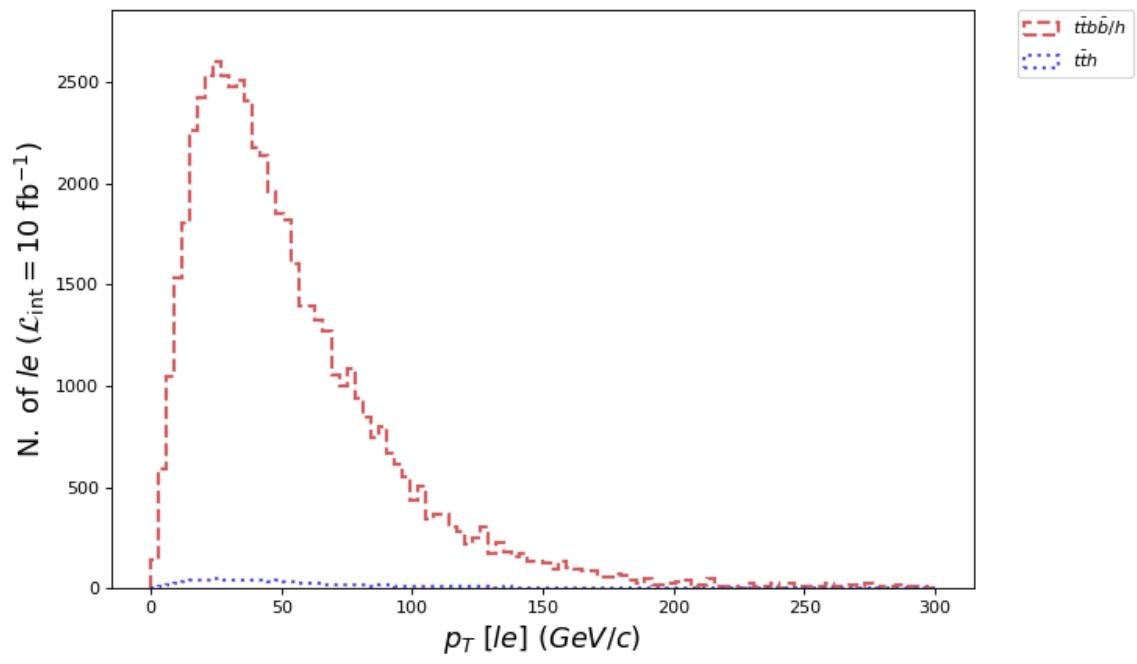
$$M(j_1, j_2)$$



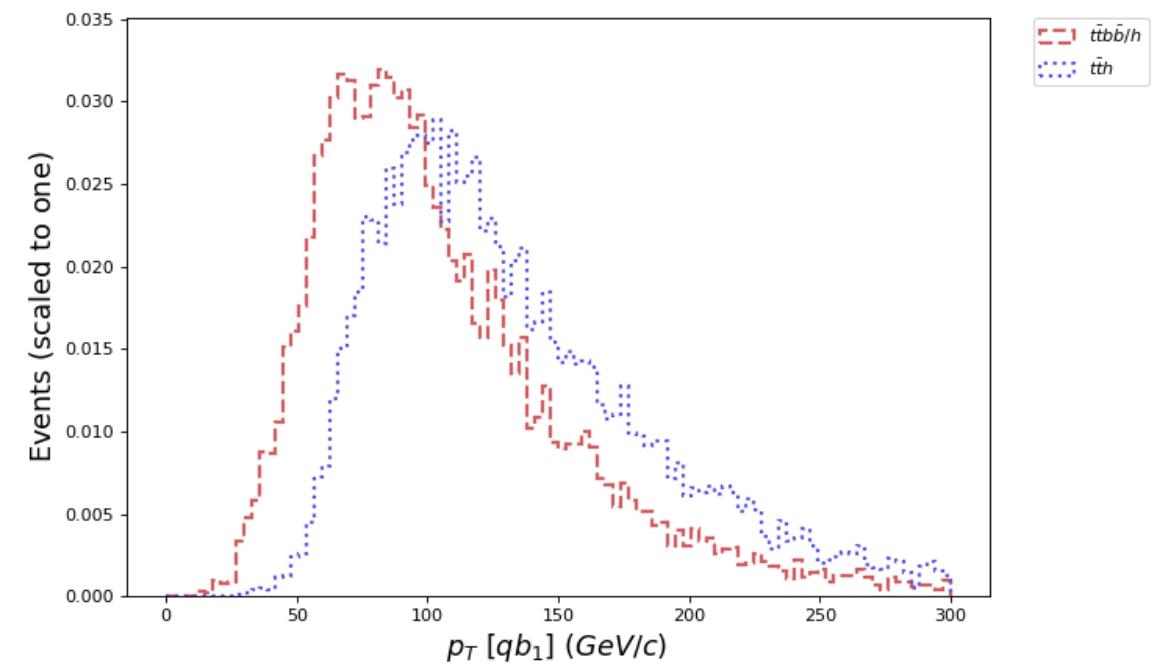
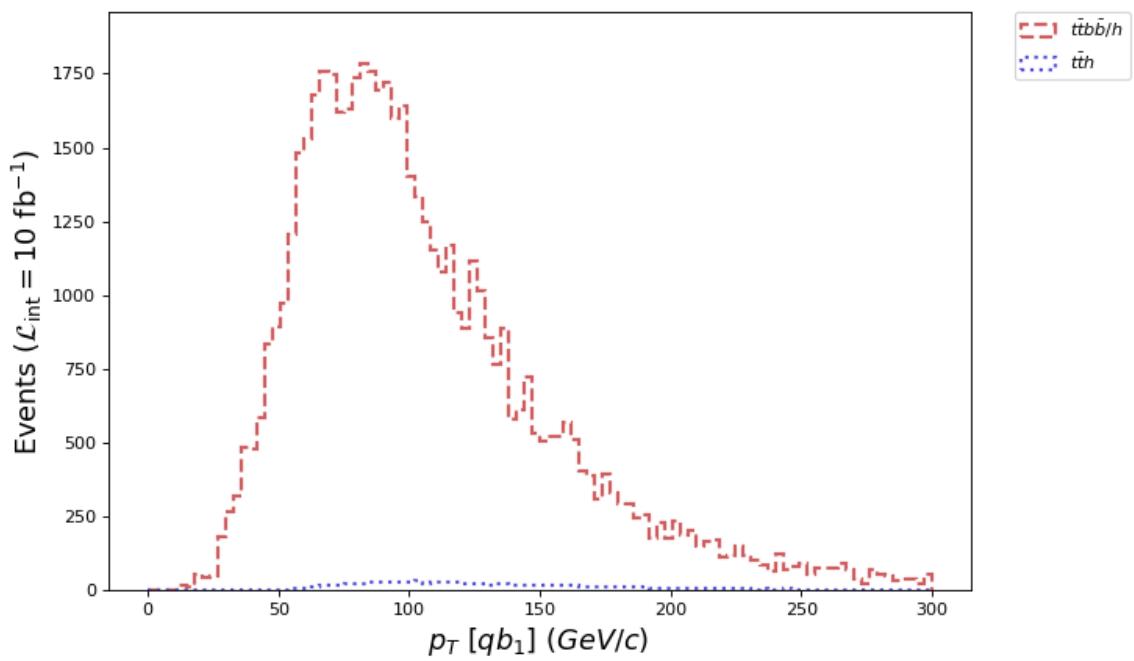
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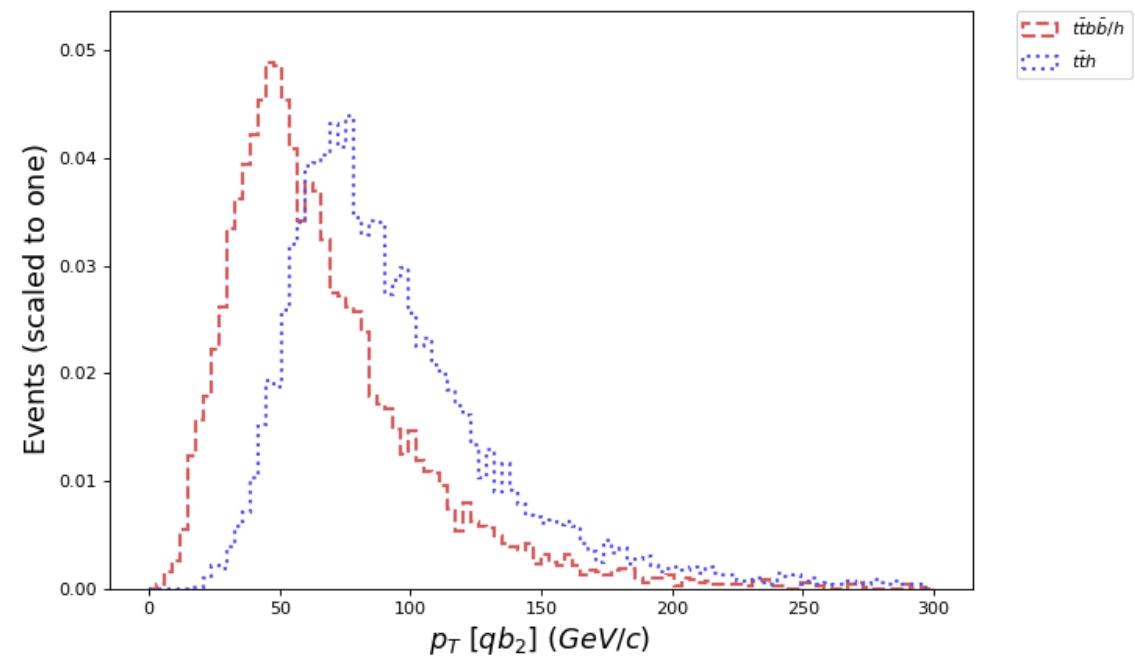
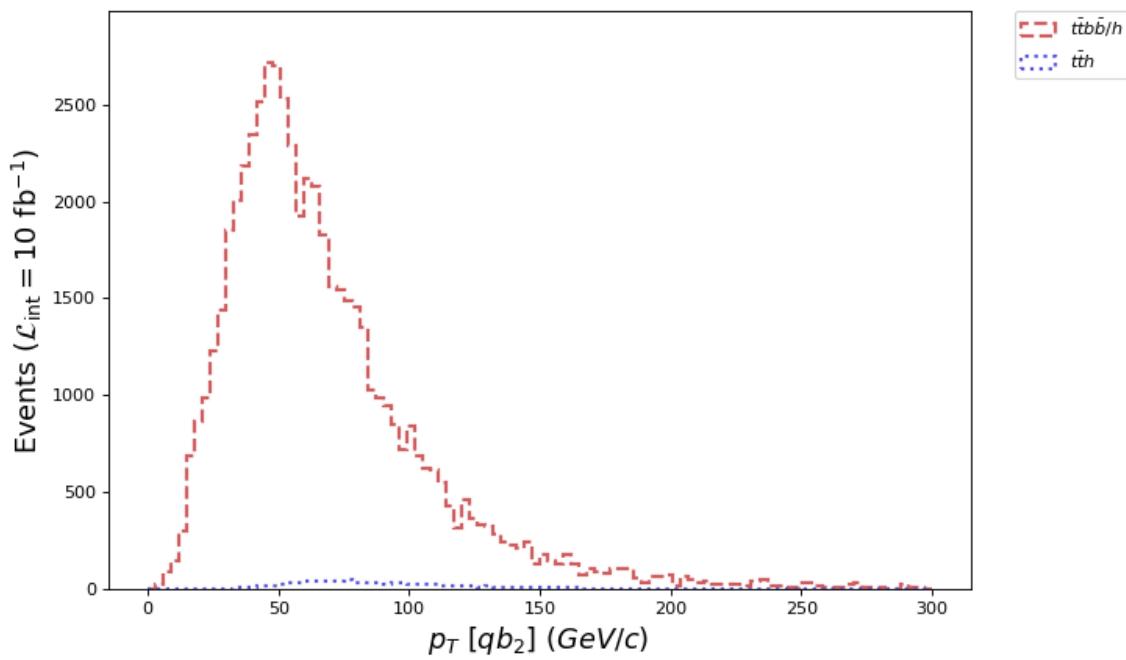
$p_T(l)$



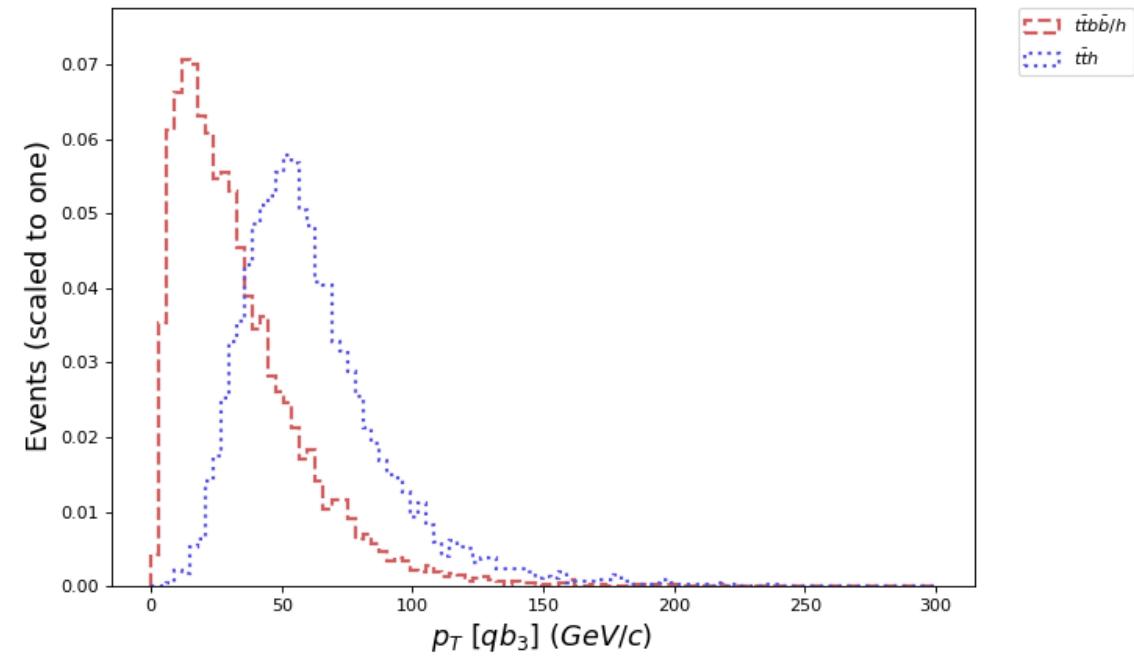
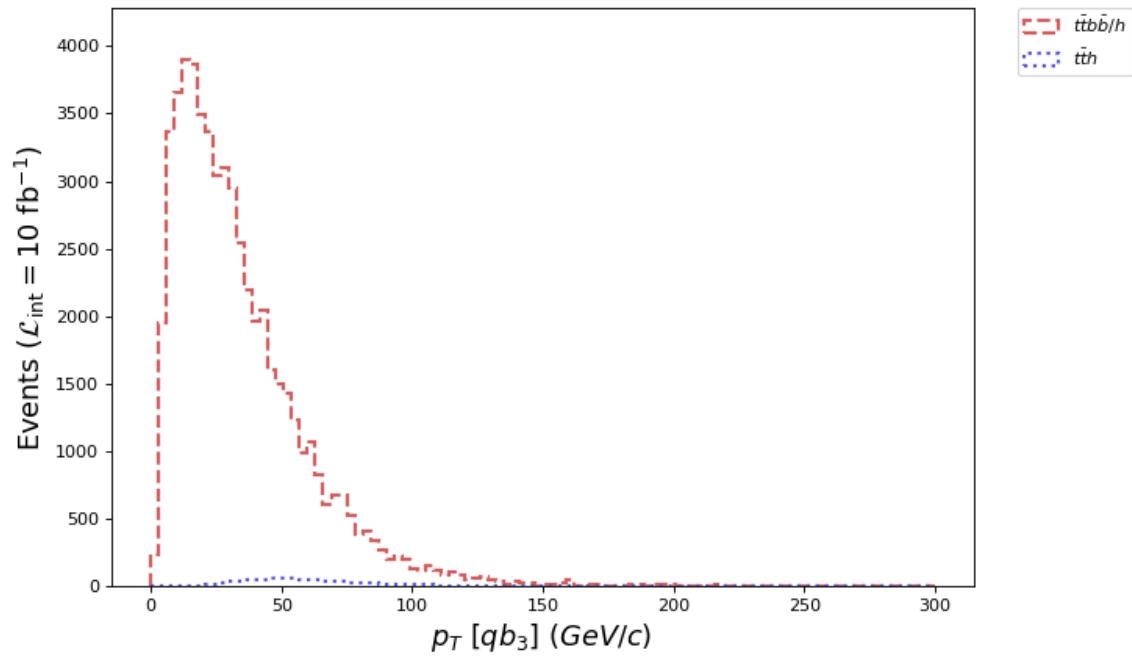
$$p_T(b_1)$$



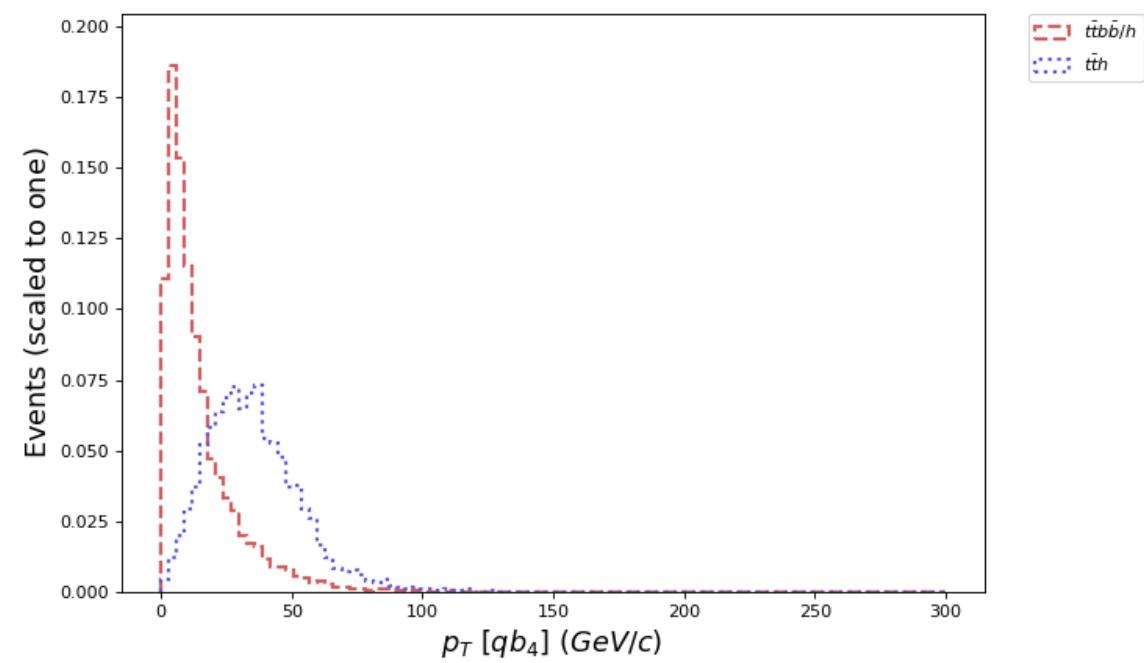
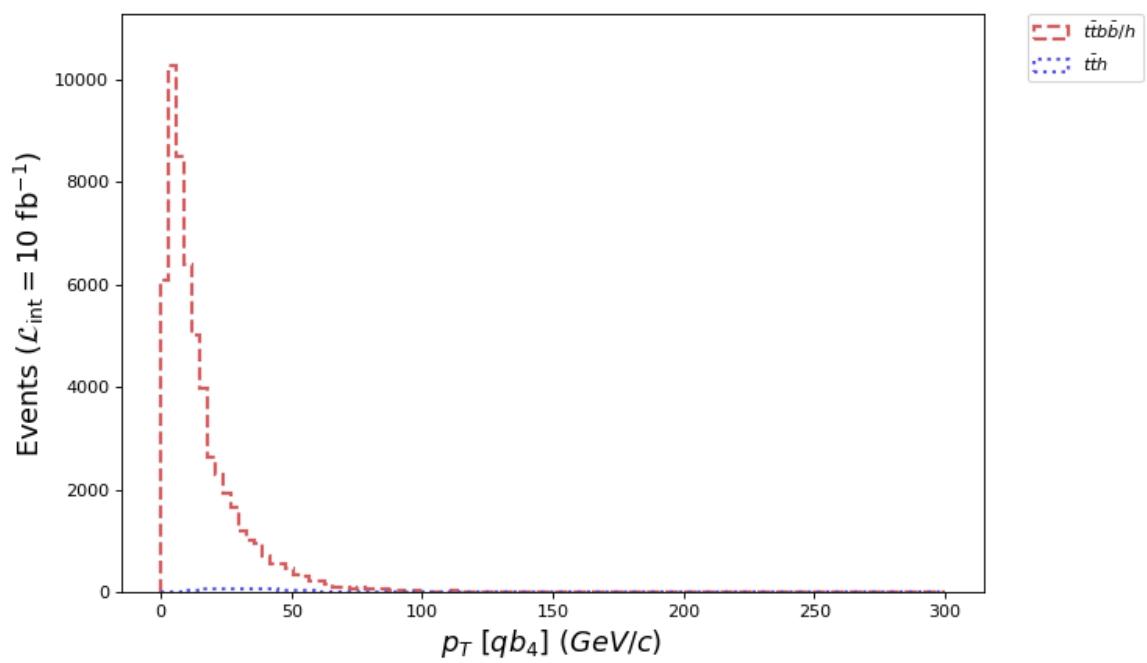
$$p_T(b_2)$$



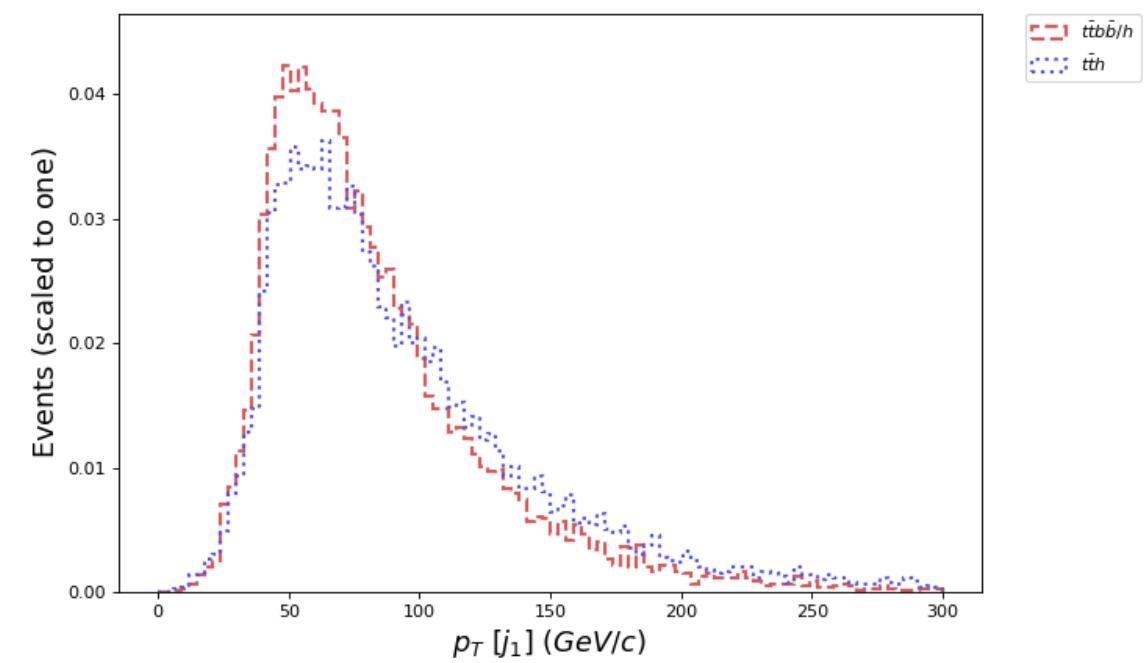
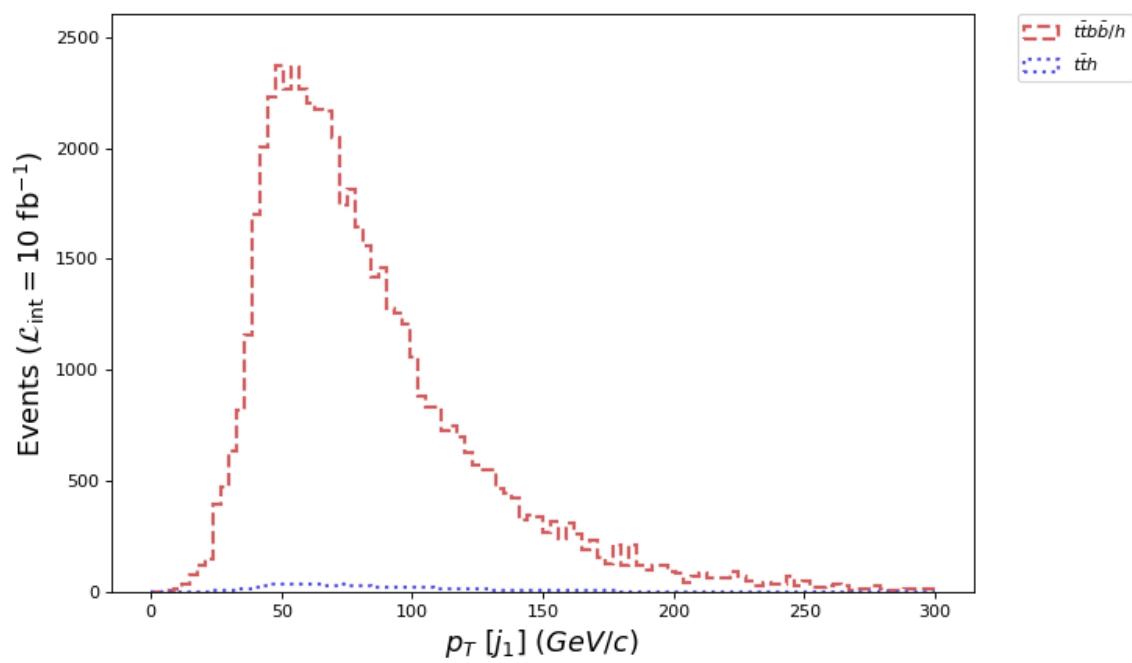
$$p_T(b_3)$$



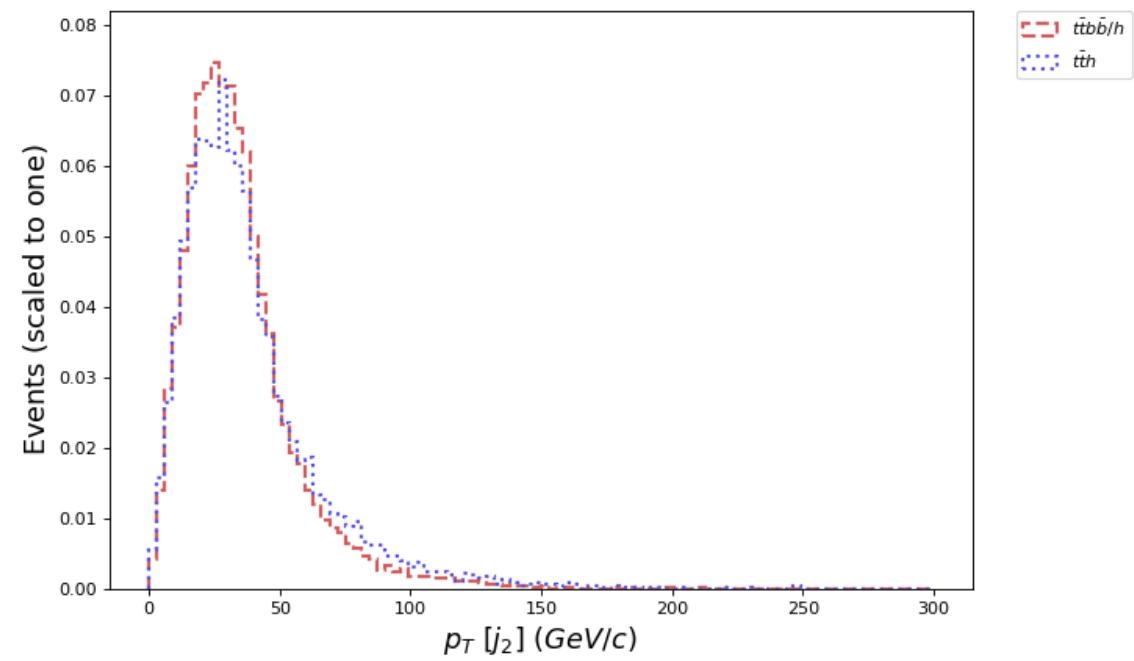
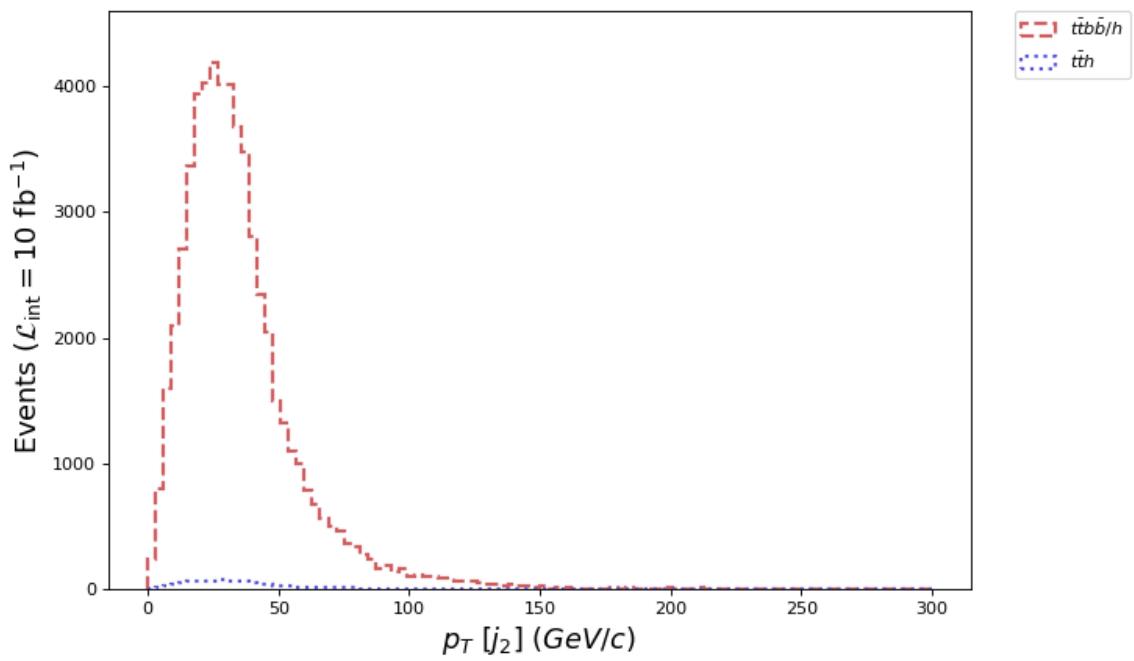
$$p_T(b_4)$$



$p_T(j_1)$



$p_T(j_2)$



$$p_T(\nu_l)$$

