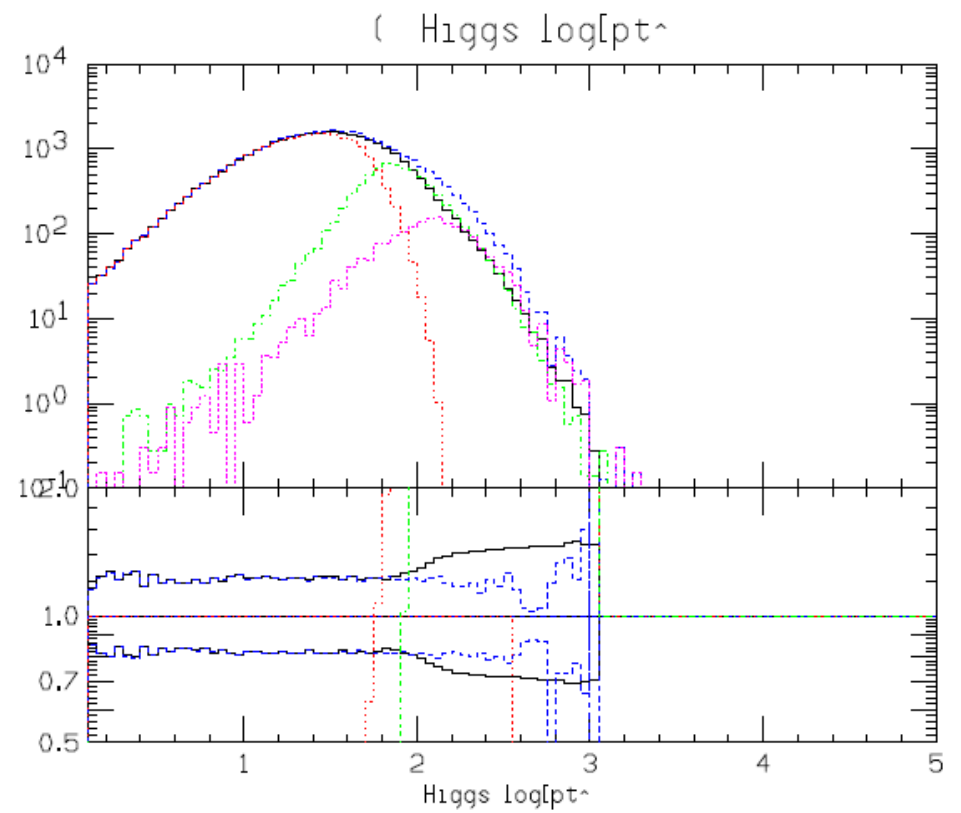
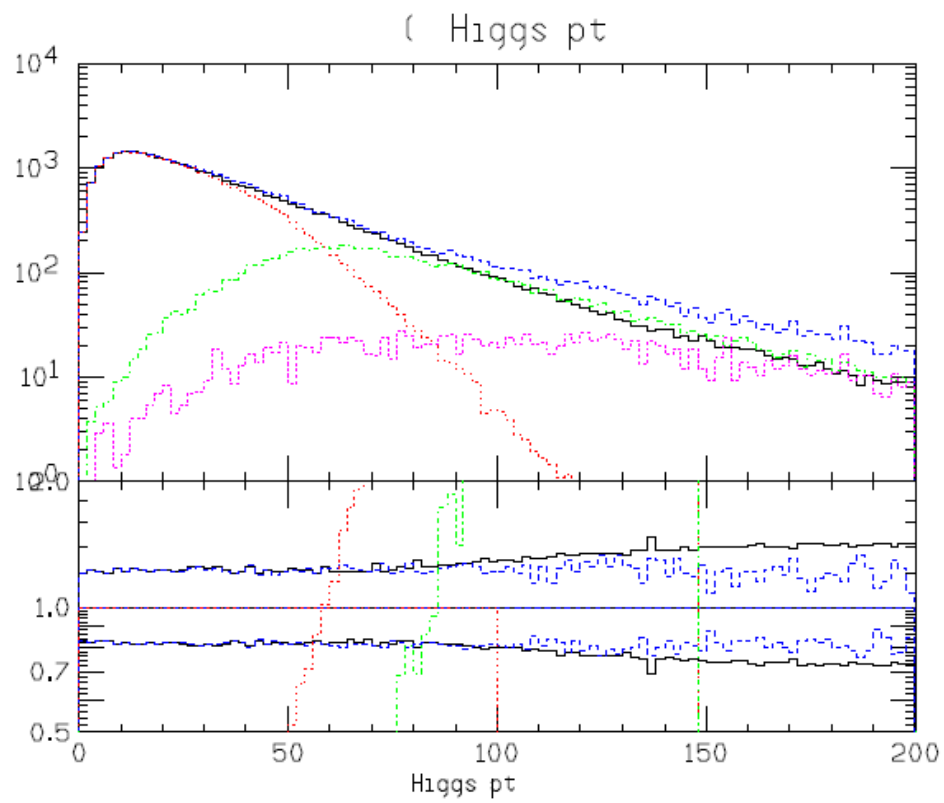
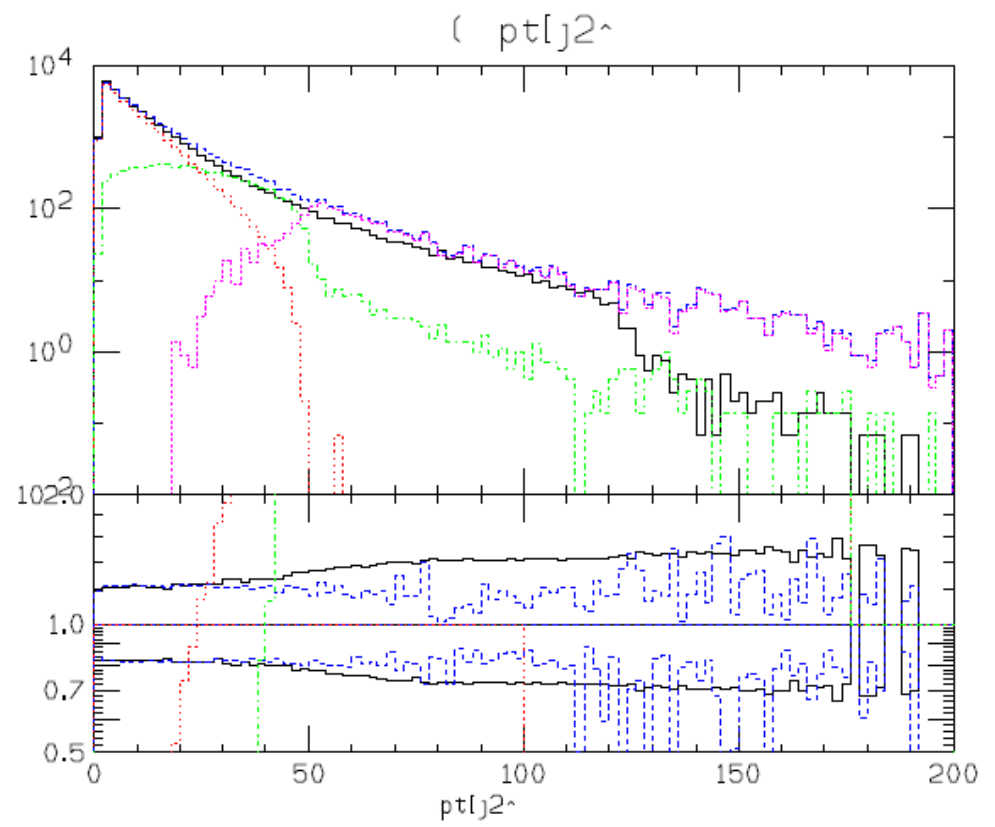
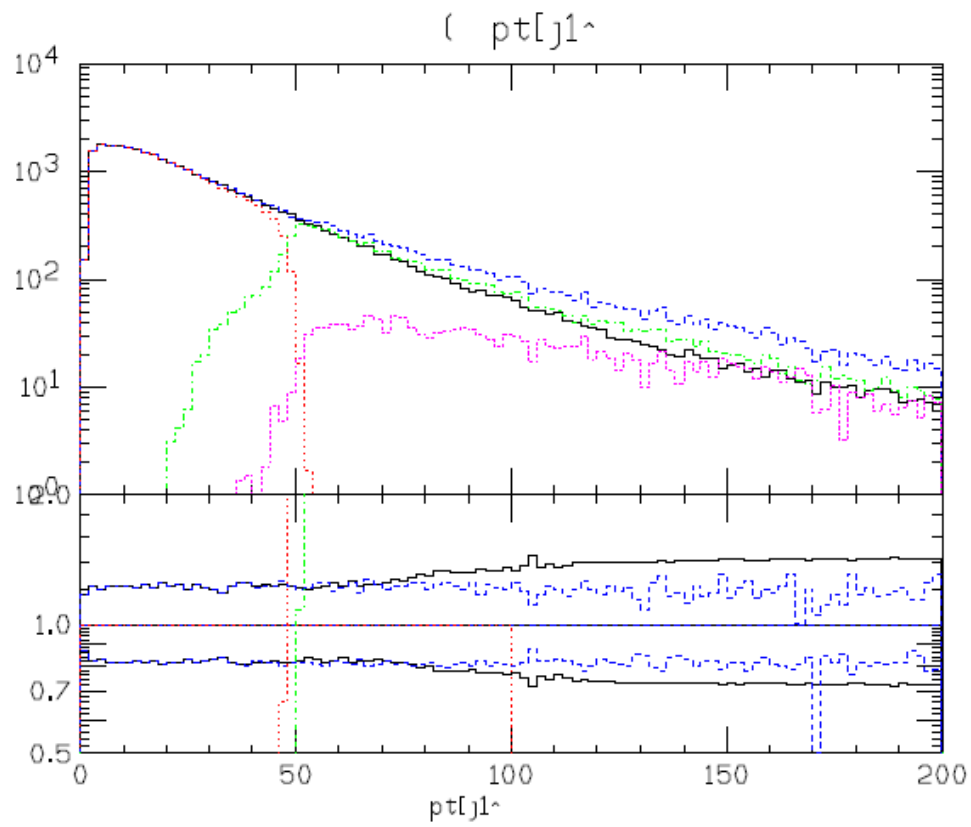


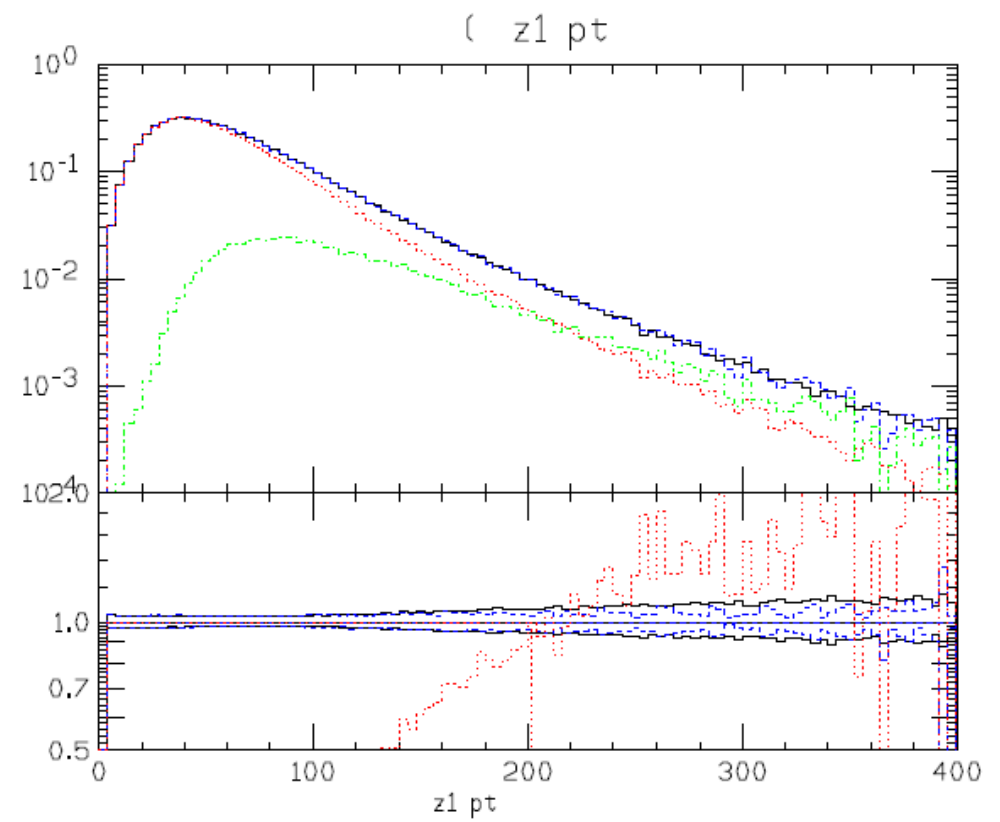
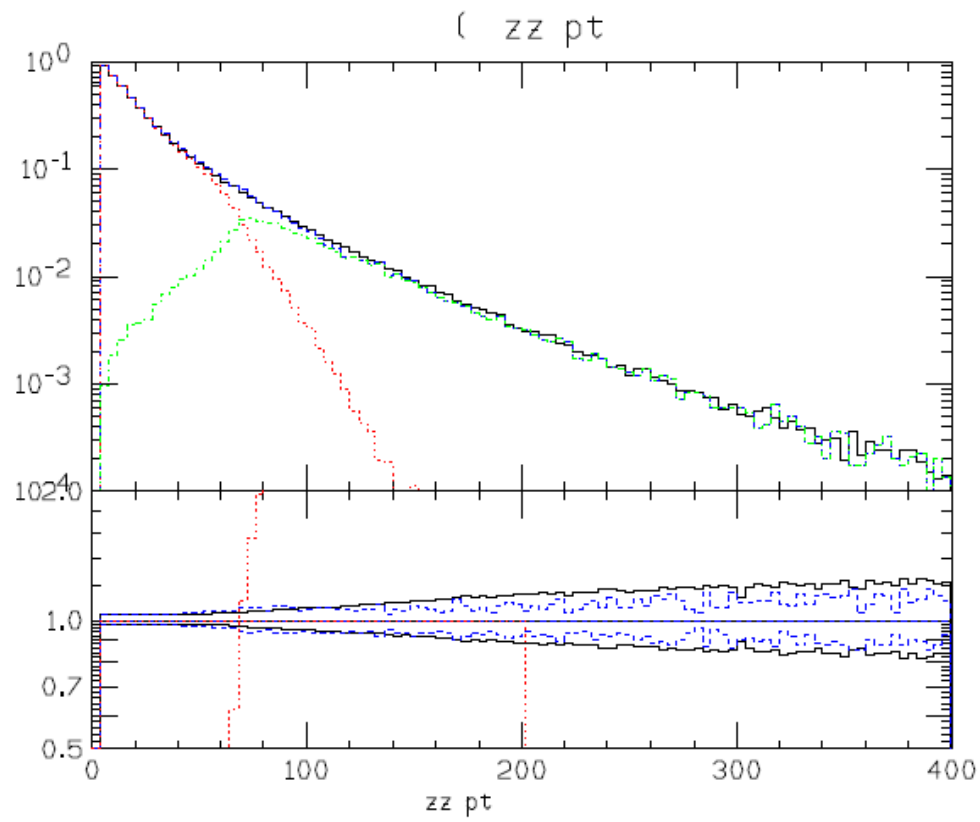
$(gg \rightarrow)H + 0, 1, 2$



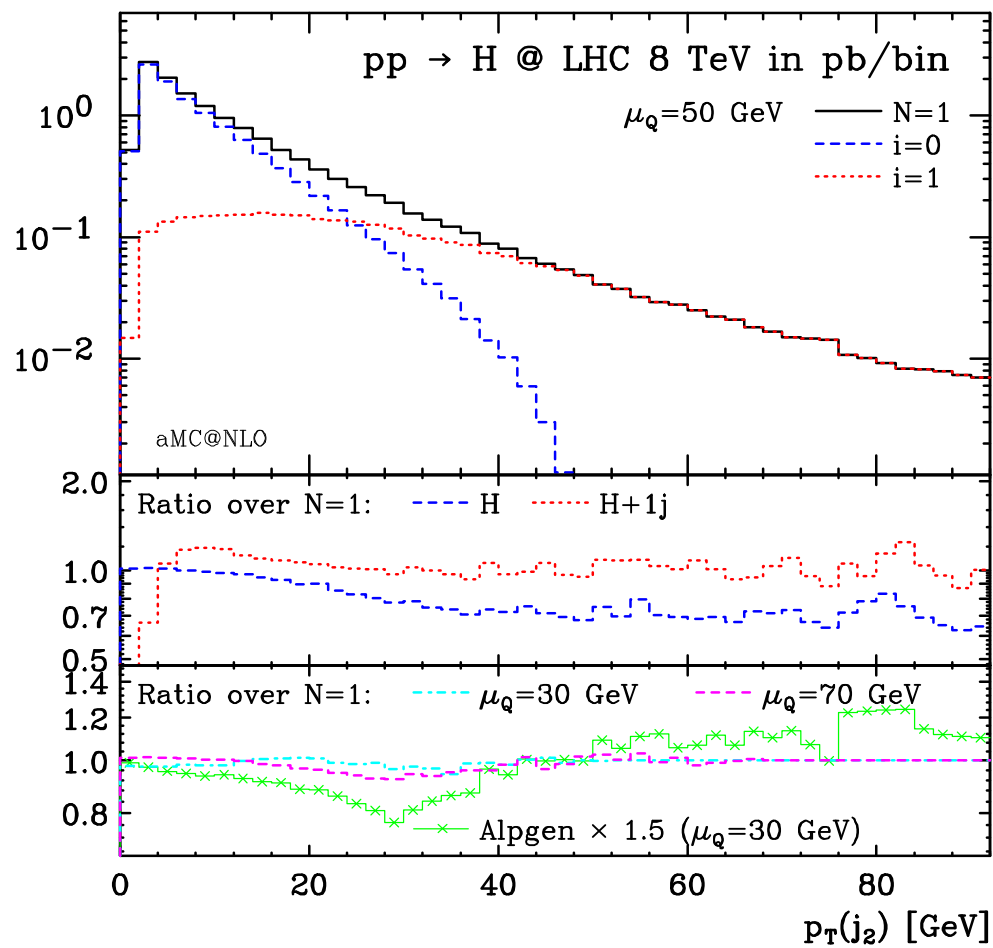
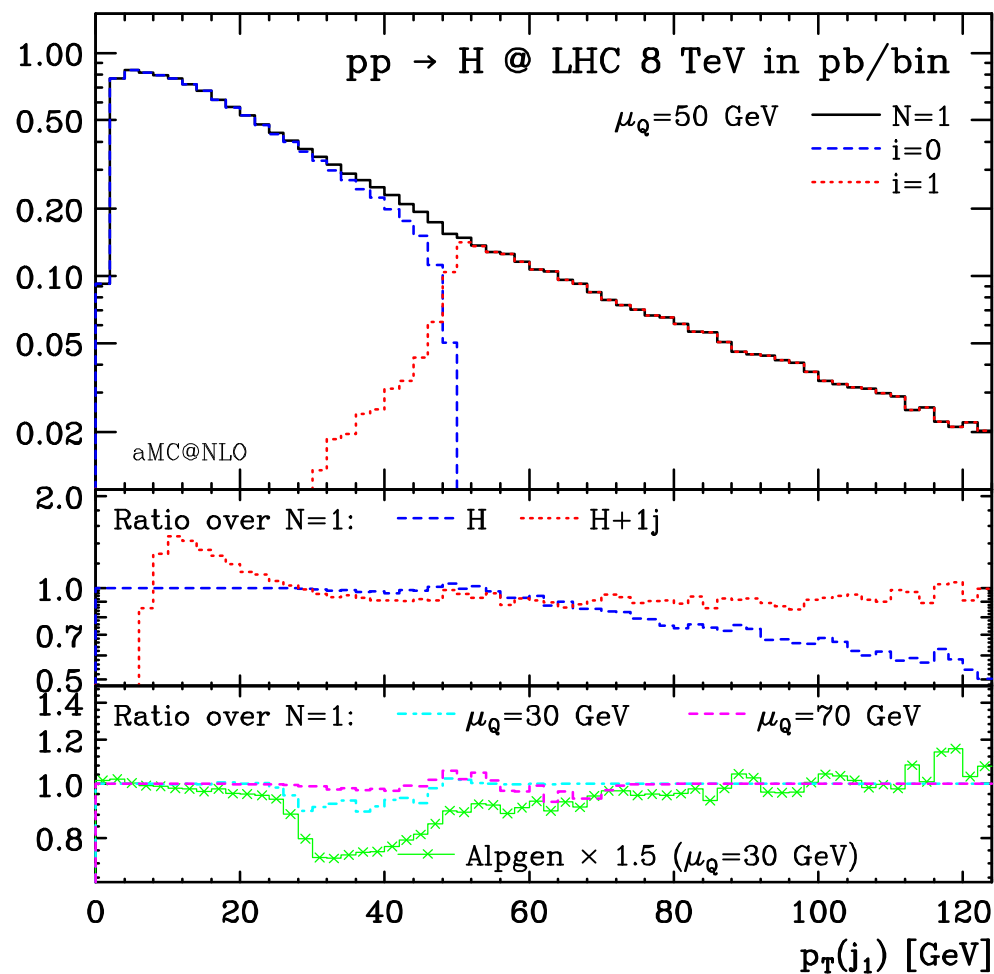
$(gg \rightarrow)H + 0, 1, 2$



# $ZZ + 0, 1$



# $(gg \rightarrow)H + 0, 1$



Merged samples (0-, 1-, and 2-parton) with  $\mu_Q = 30, 50, \text{ and } 70 \text{ GeV}$

Anti- $k_T$  jets,  $R = 0.4$ , only those with  $|\eta| \leq 5$  considered

▶ cuts<sub>1</sub>:

at least two jets, both with  $p_T \geq 25 \text{ GeV}$

▶ cuts<sub>2</sub>:

$M_{j_1 j_2} \geq 400 \text{ GeV}$     &&     $|\Delta y_{j_1 j_2}| \geq 2.8$     &&    cuts<sub>1</sub>

# Rates (pb)

(and fractions of 0-, 1- and 2-parton sample contributions)

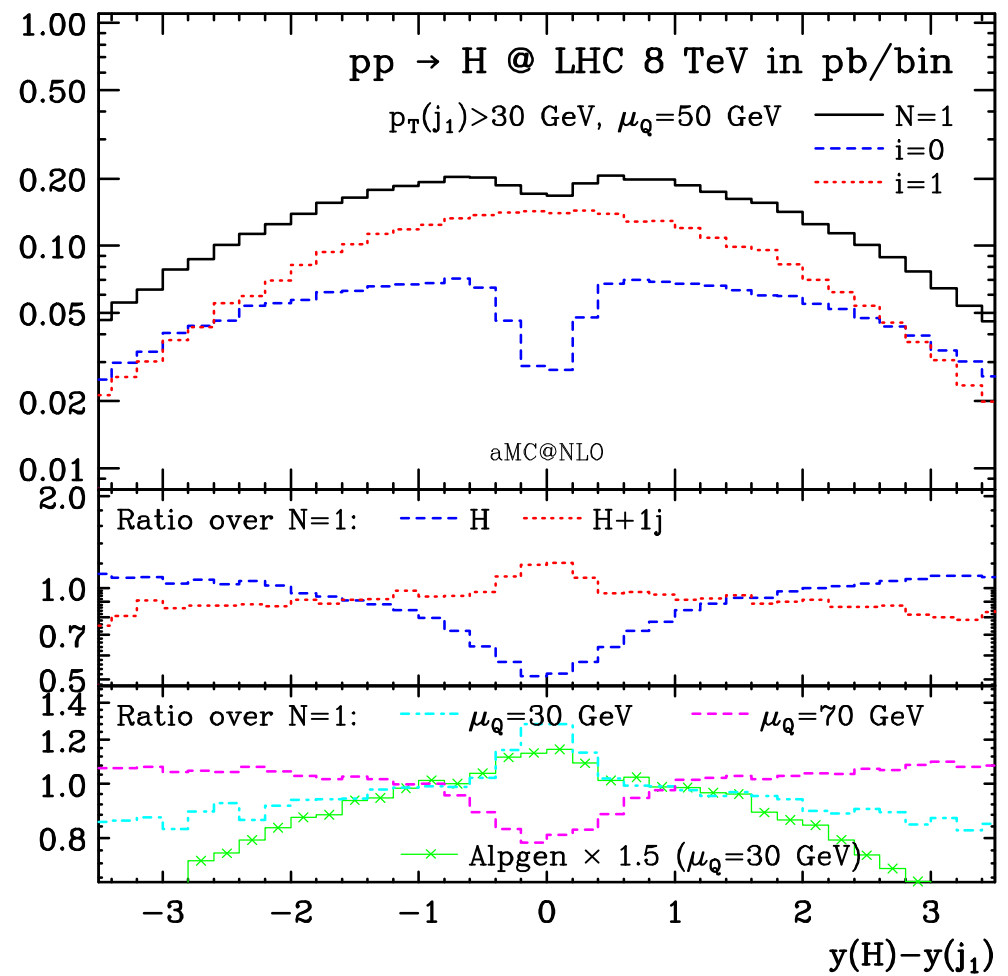
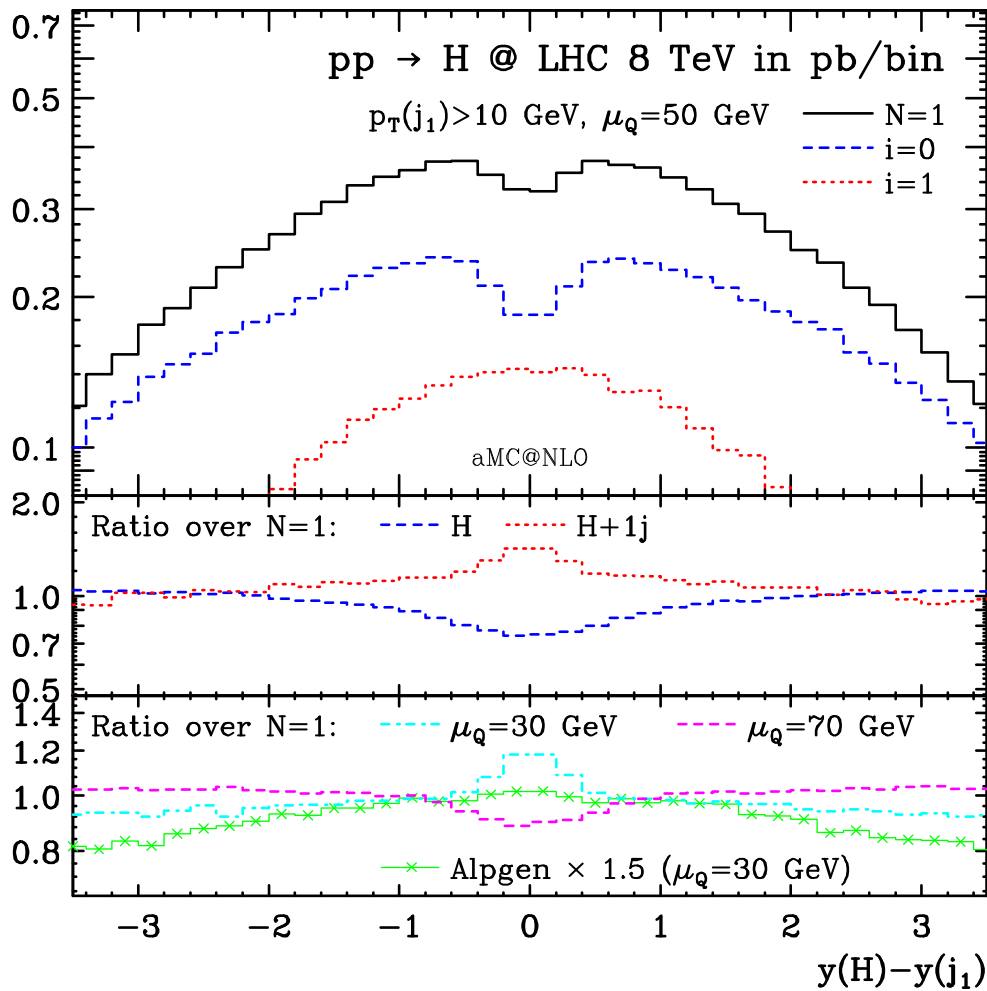
	$\mu_Q = 30$	$\mu_Q = 50$	$\mu_Q = 70$
no cuts	13.91 (58.8+29+12.2)%	14.09 (77.5+18.7+3.8)%	14.08 (86.4+12+1.6)%
cuts <sub>1</sub>	1.65 (0.2+14.6+85.2)%	1.62 (16.1+51+32.9)%	1.58 (36+49.8+14.2)%
cuts <sub>2</sub>	0.125 (0.2+7.5+92.3)%	0.170 (21.8+43.5+34.7)%	0.207 (43.6+43.4+13)%

ME



MC

# $(gg \rightarrow)H + 0, 1$



# $(gg \rightarrow)H + 0, 1$

