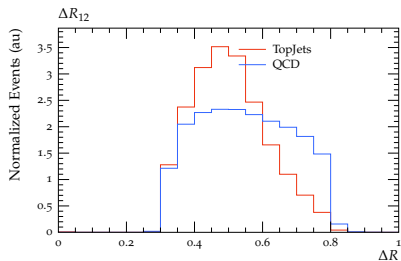
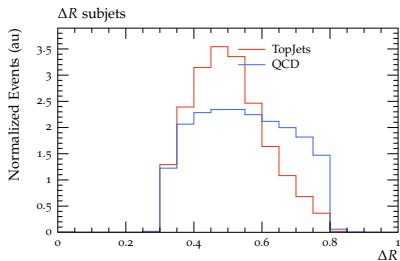


Top Jets preliminary studies

Paolo Gunellini,
Hannes Jung ,
Daniela Dominguez.



October 24, 2016

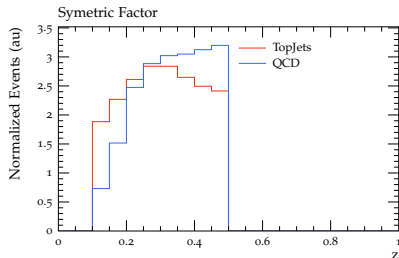
ΔR ΔR between the leading jets ΔR between the subjets.

Symmetric Factor (z) and Soft Drop Mass (SD)

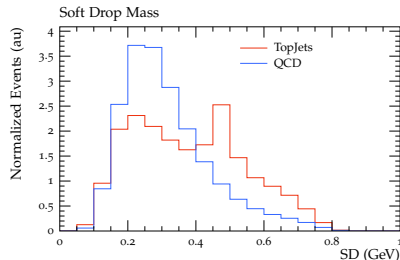
$$\frac{\min(p_{t1}, p_{t2})}{p_{t1} + p_{t2}} > z_{cut} \left(\frac{\Delta R_{12}}{R_0} \right)^\beta,$$

where $z_{cut} = 0.1$, $\beta = 0$.

Symmetric Factor (z)

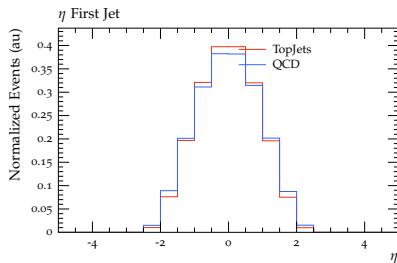


Soft Drop Mass (SD)

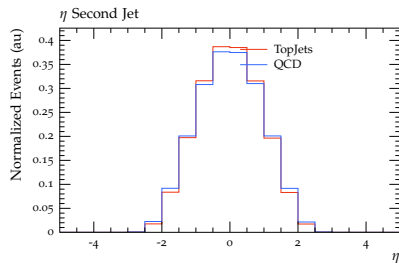


η Distribution of the leading jets.

Leading Jet

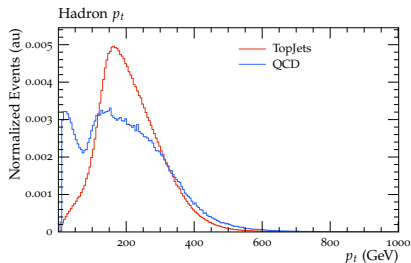


Subleading jet

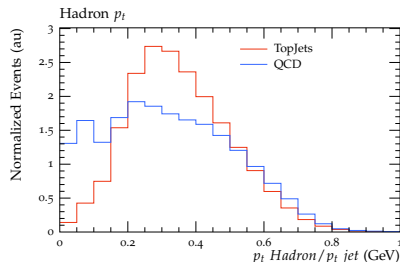


Hadron p_t distribution

Hadron p_t distribution

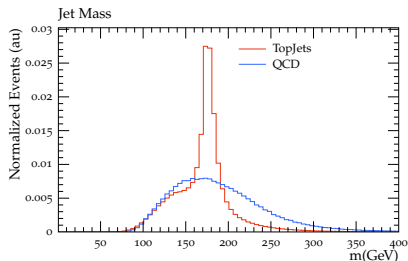


Fraction of the Hadron p_t with respect to the p_t of the jet

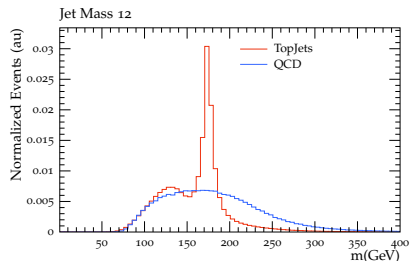


Jet Mass

Jet Mass distribution leading jet

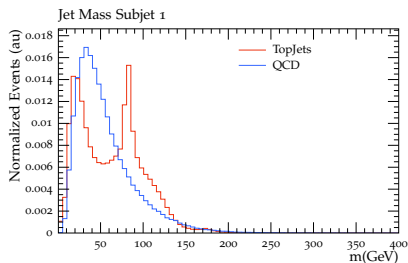


Jet Mass distribution between subjets

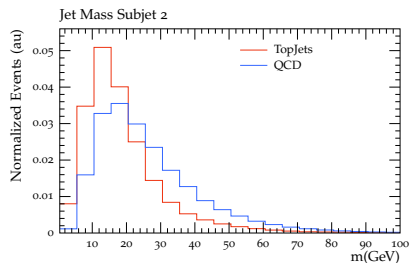


Jet Mass Subjects

Jet Mass distribution leading subject

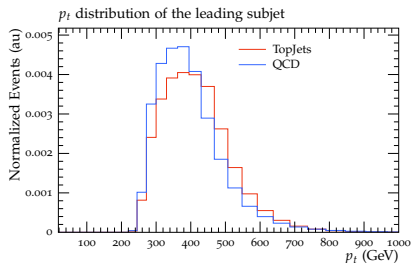


Jet Mass distribution second subject

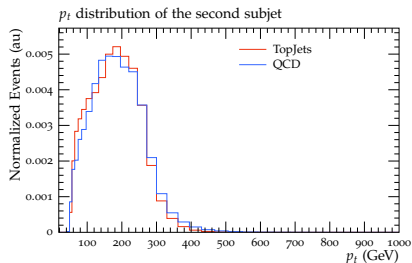


p_t distribution of the subjects

p_t distribution leading subjet

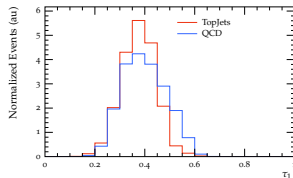


p_t distribution second subjet

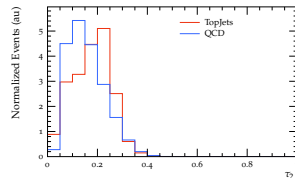


τ distribution of the subjects

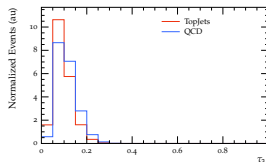
τ_1 distribution



τ_2 distribution

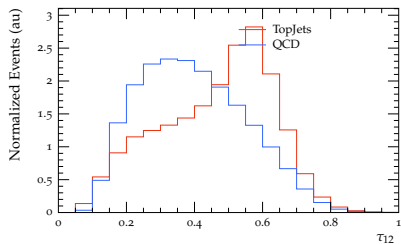


τ_3 distribution



τ distribution.

τ_{12} distribution



τ_{23} distribution

