

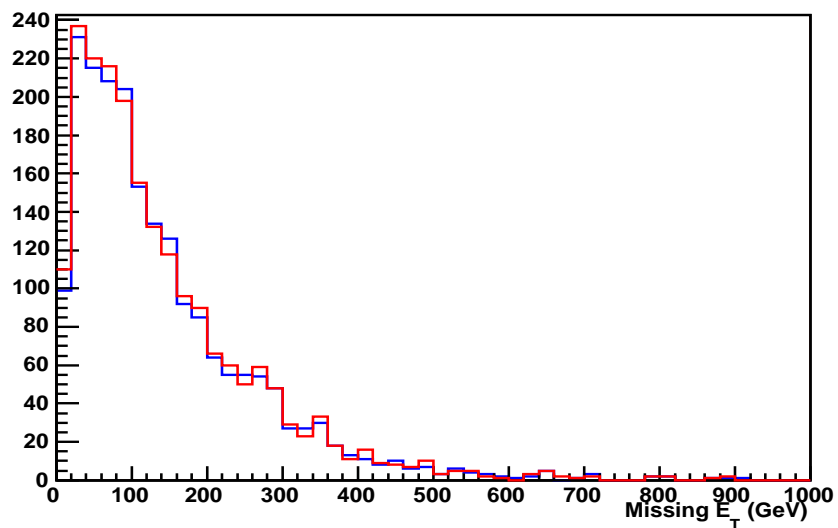
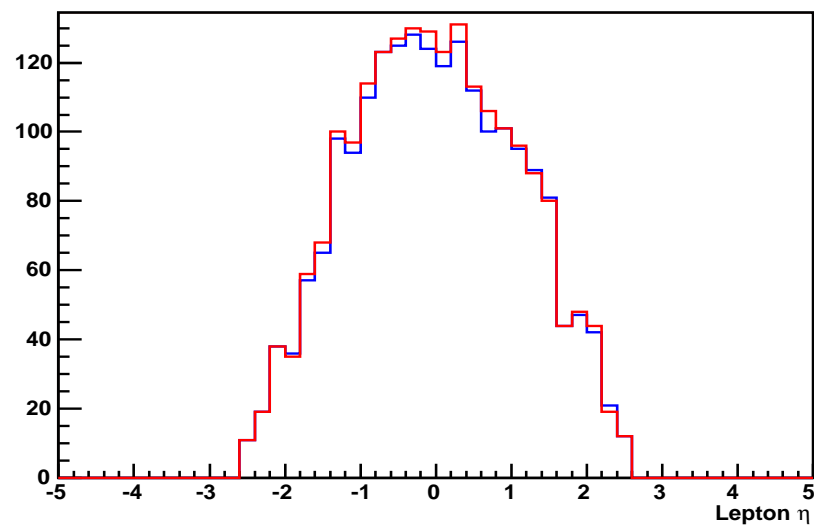
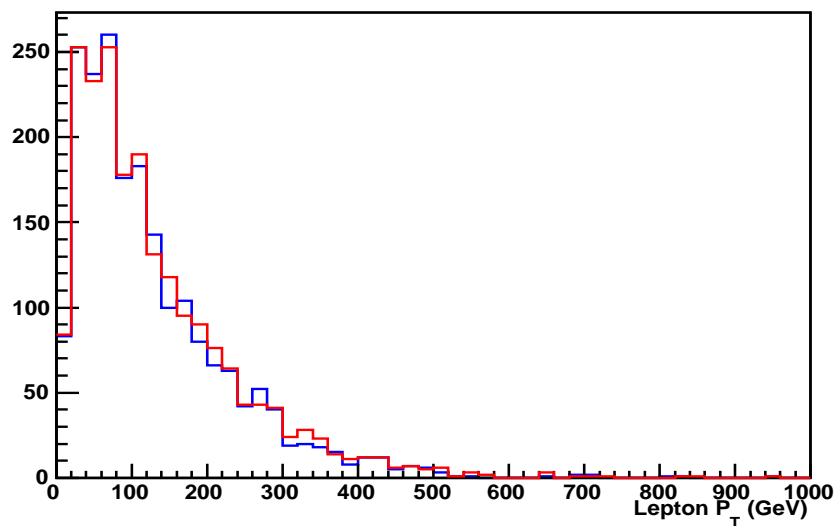


My first step to Subject Analysis (using ATLFAST objects)

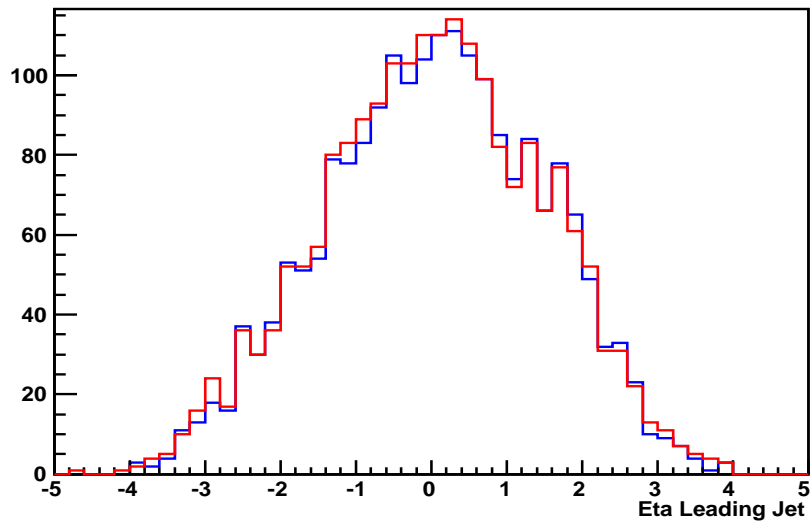
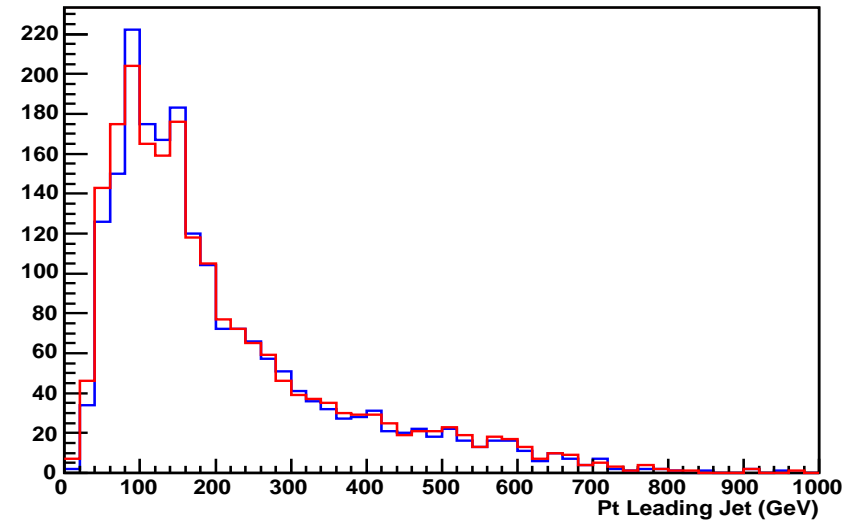
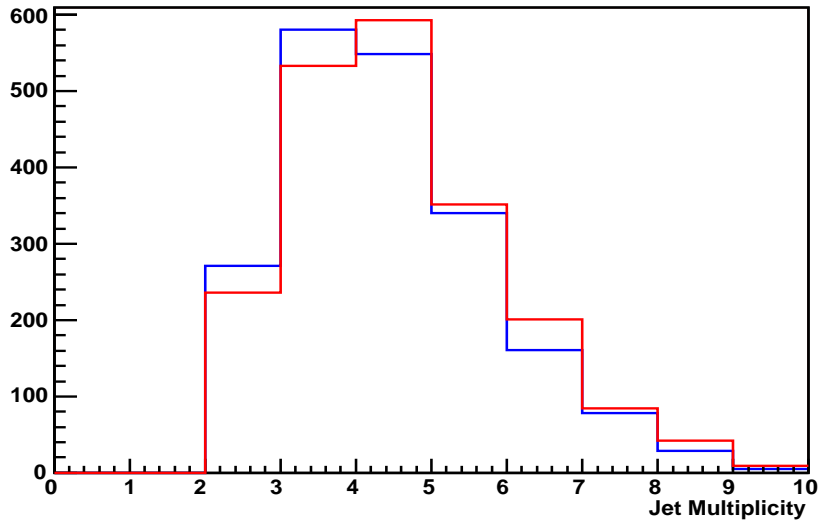
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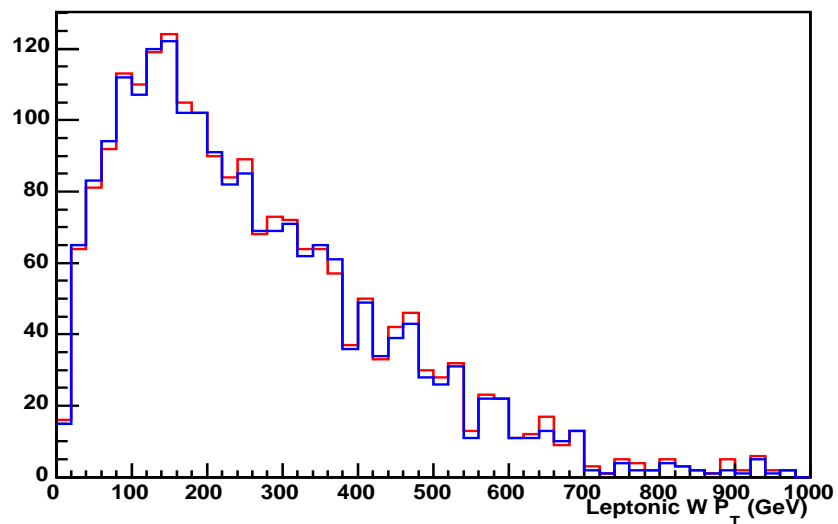
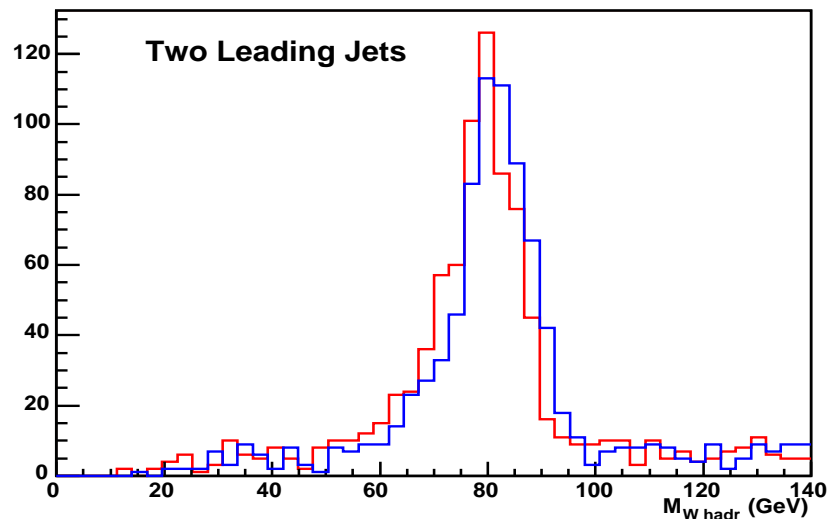
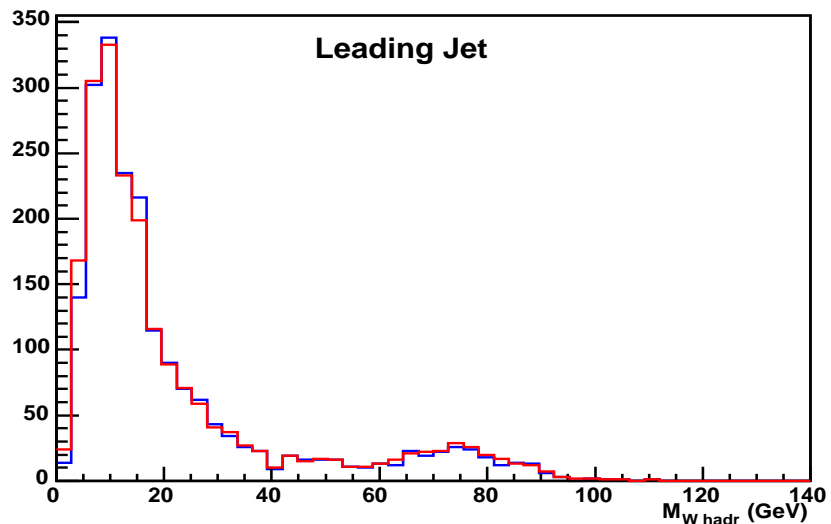
- Motivation: Highly boosted W which decays hadronically gives 2 jets very close in $\eta - \phi$ space.
- The subjet analysis is feasible using the Kt algorithm:
 - Find Jets
 - Get the Leading Jet
 - Investigate its structure
- The back navigation of the jets is lost when the conversion from Atlast Objects to AOD takes place.
- Back navigate using the Atlast Objects with rel. 11.2.0 (with many major modifications on my code to access the methods of the objects).
- First Step: Check against rel 10.0.1 using the Cone Algorithm with $\Delta R = 0.4$



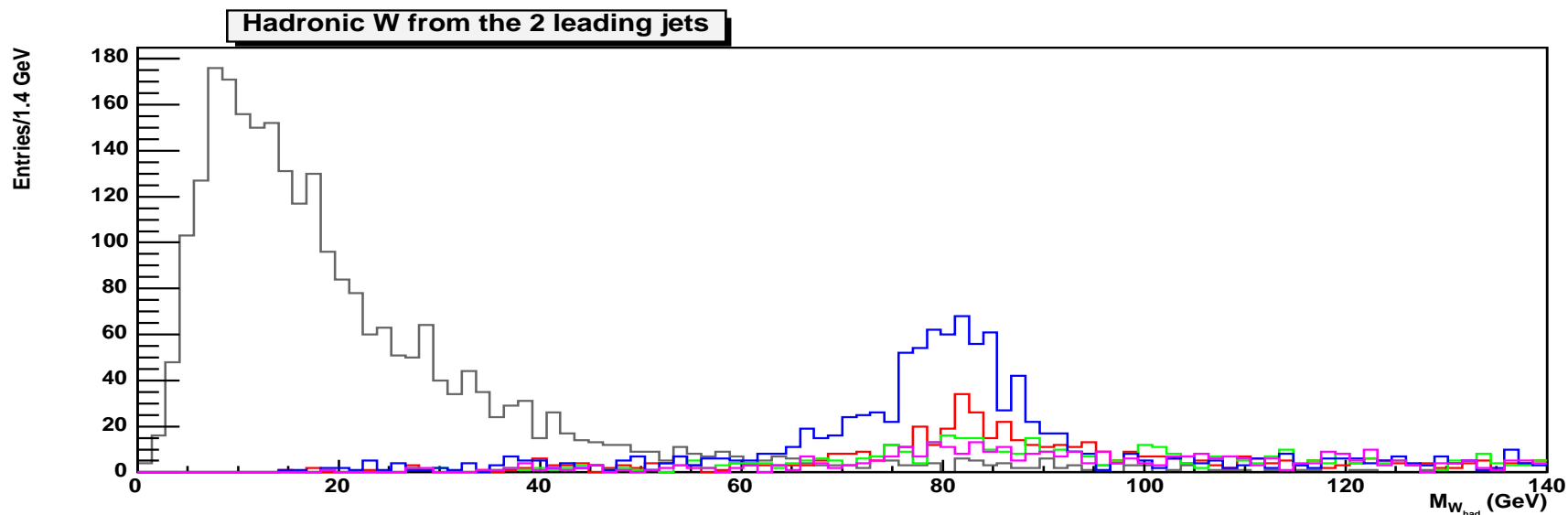
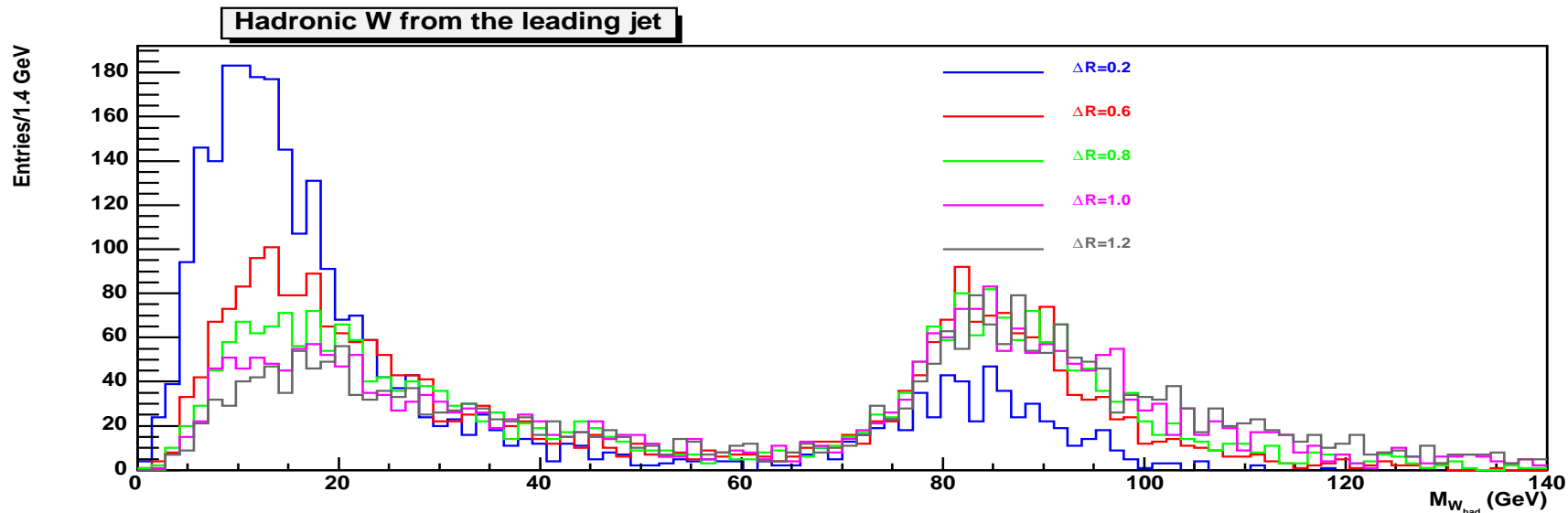
— Rel. 11.2.0 (Atfast Objects)
— Rel. 10.0.1 (AOD)

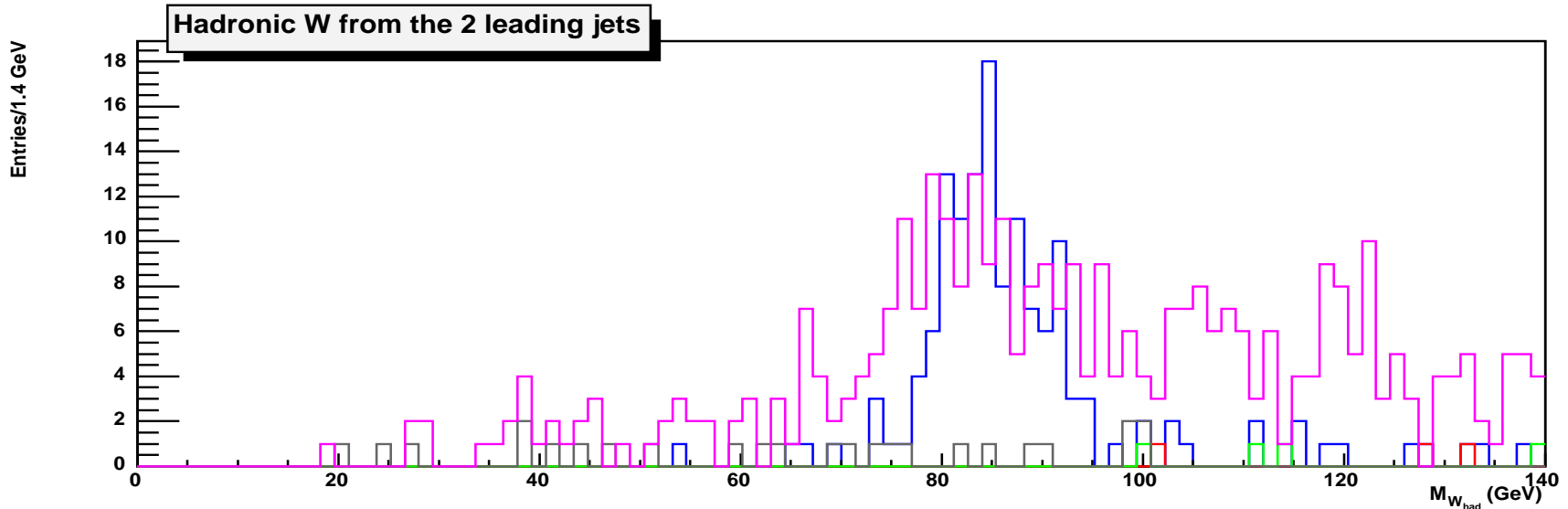
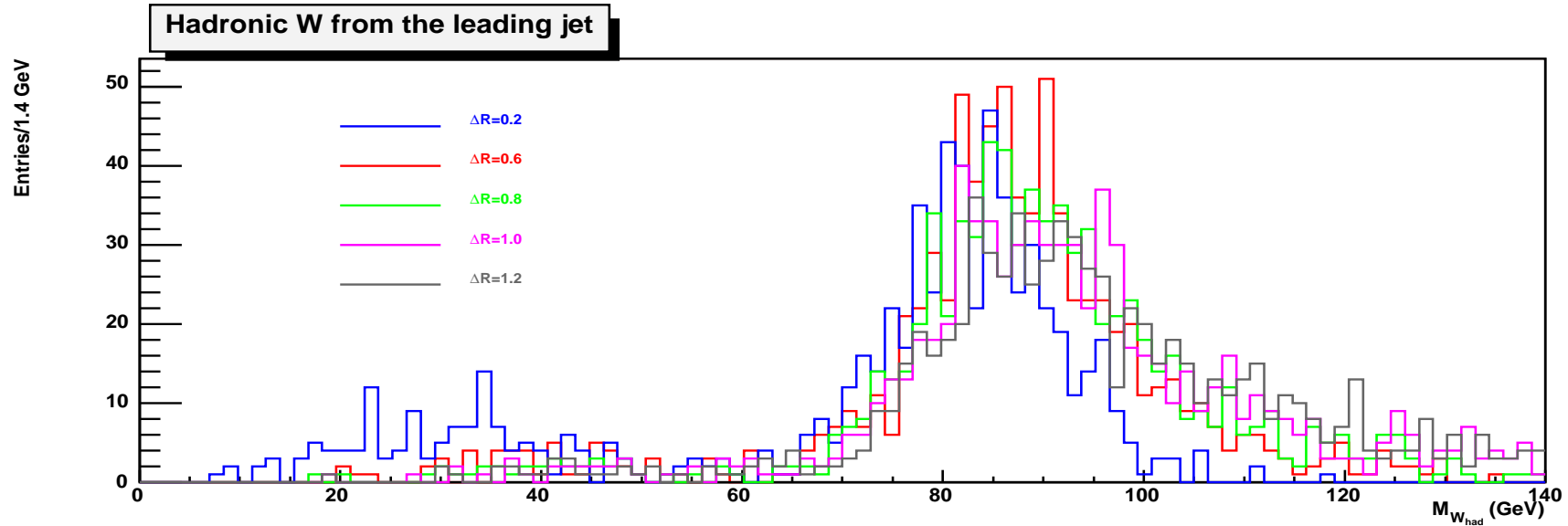


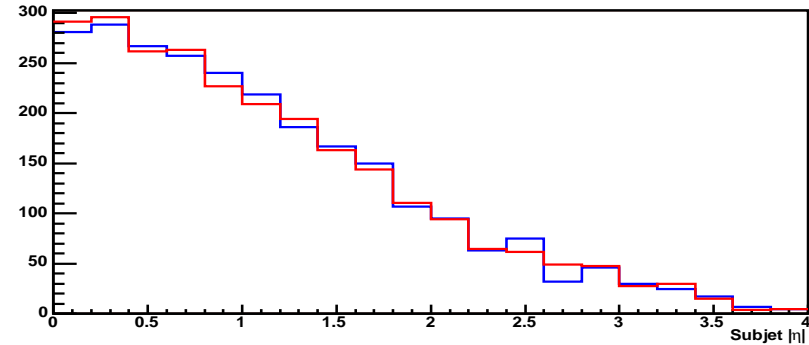
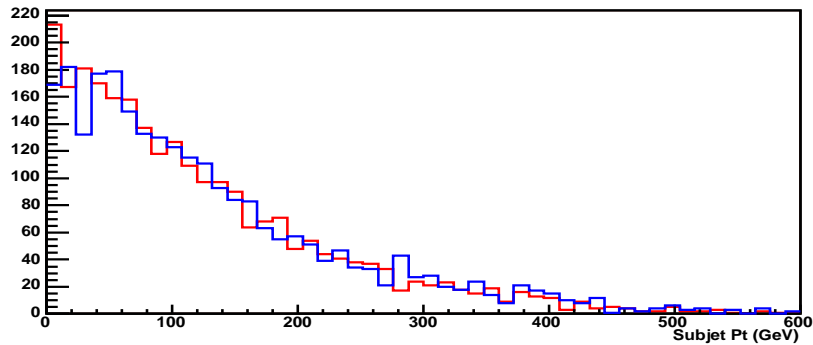
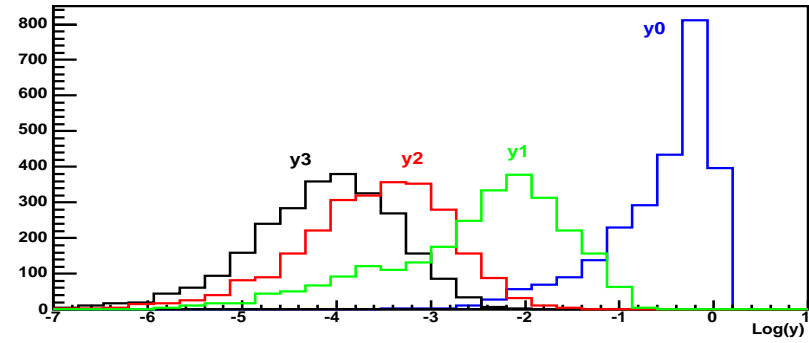
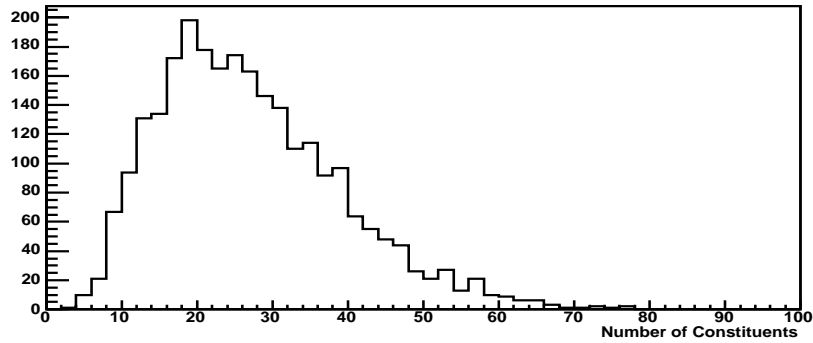
— Rel 11.2.0 (Atlfast Objects)
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— Rel. 11.2.0 (Atfast Objects)
— Rel. 10.0.1 (AOD)







— Subjet-1
— Subjet-2

Kt R-parameter = 1.

