

Higgs Tokyo/CERN Benchmarking

Dec 2013

PGS Events - Higgs Missing Energy

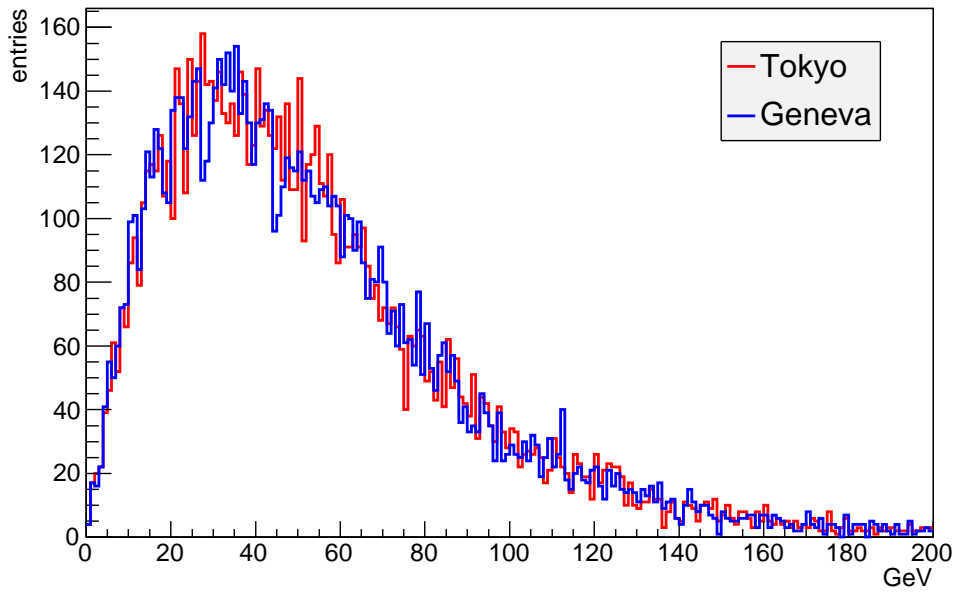


Figure 1: Higgs events Missing Energy

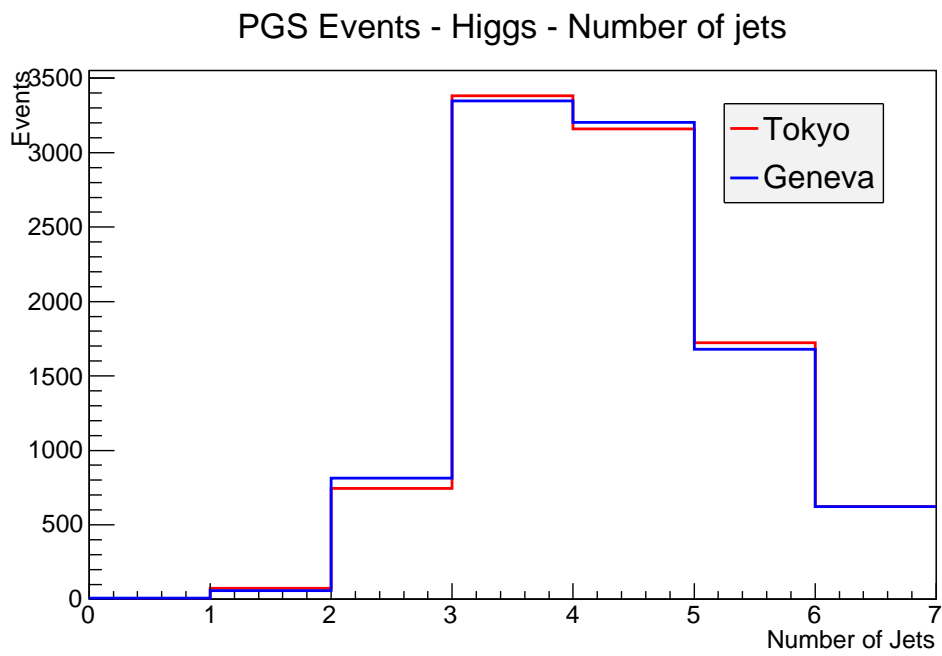


Figure 2: Number of Jets

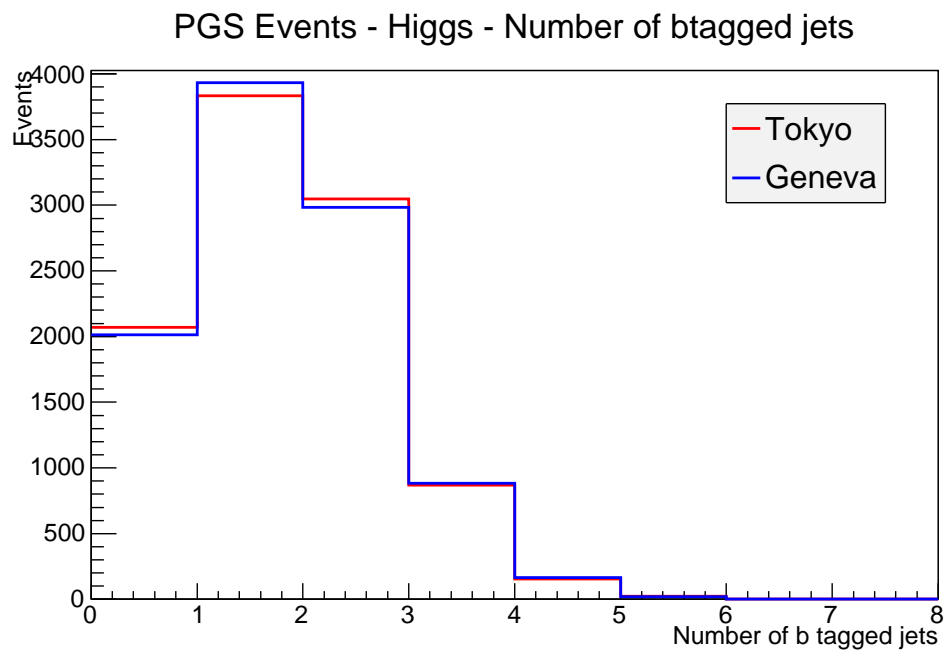


Figure 3: Number of Btagged Jets

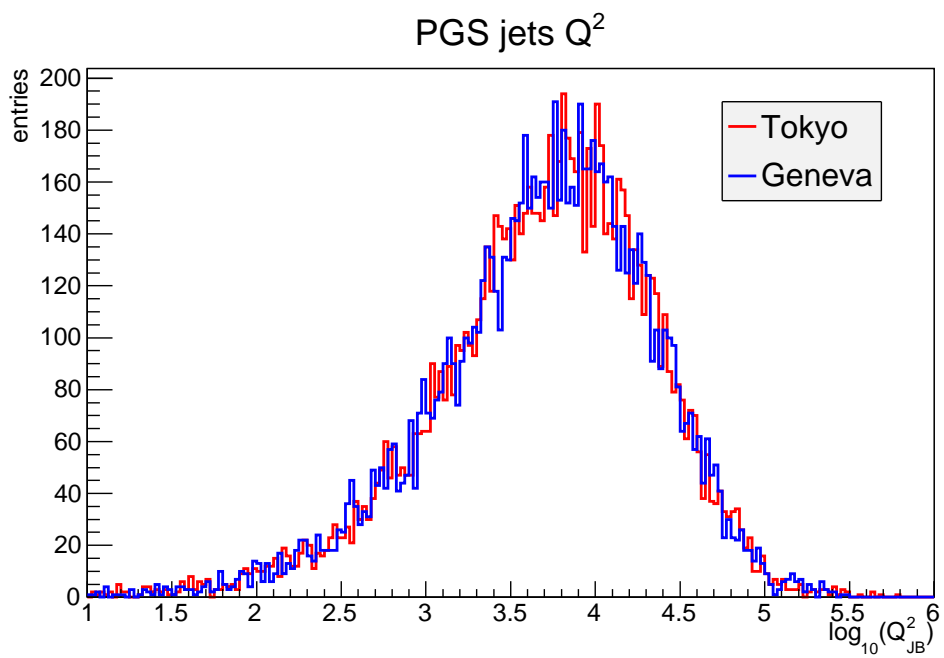


Figure 4: Reconstructed $\log_{10} Q^2$

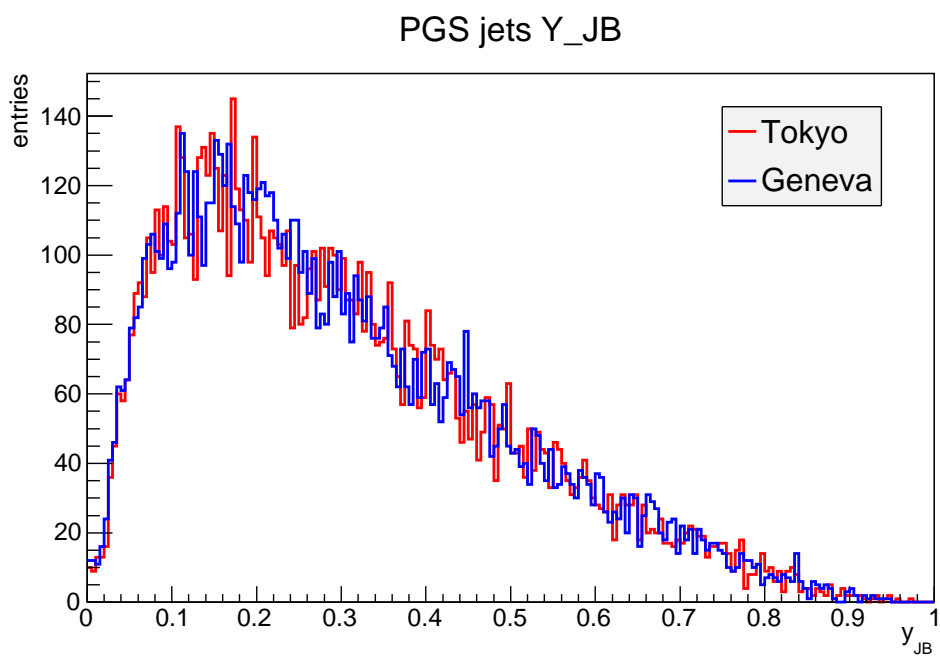


Figure 5: Reconstructed inelasticity y_{JB}

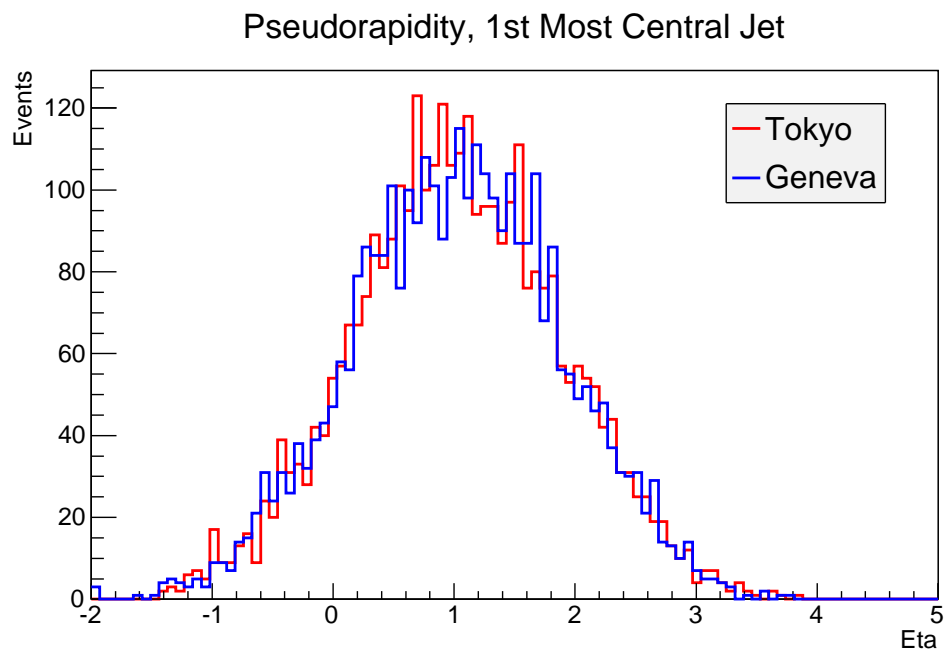


Figure 6: 1st most central Jet Eta

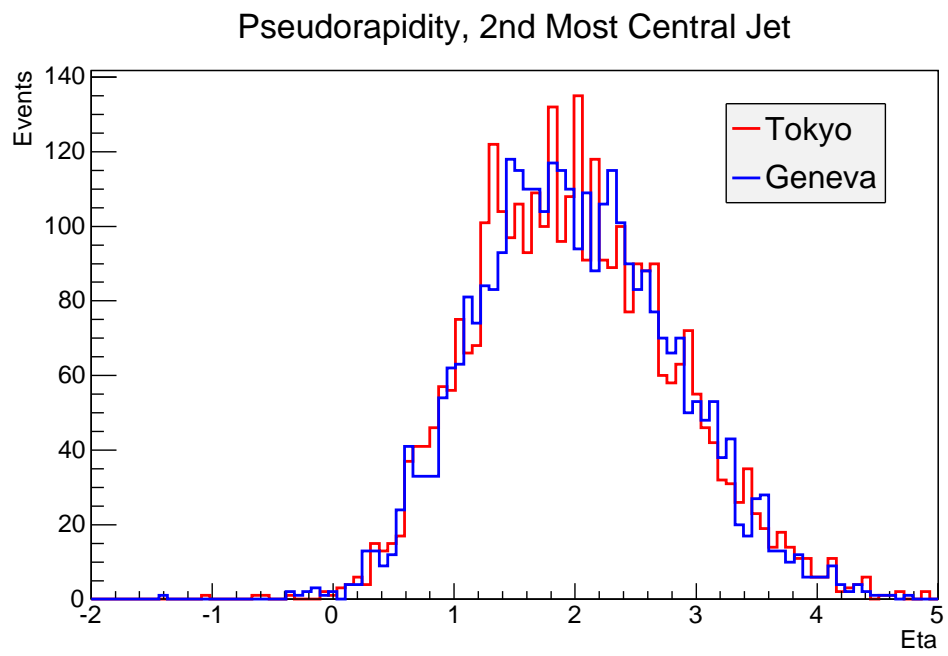


Figure 7: Second most central Jet Eta

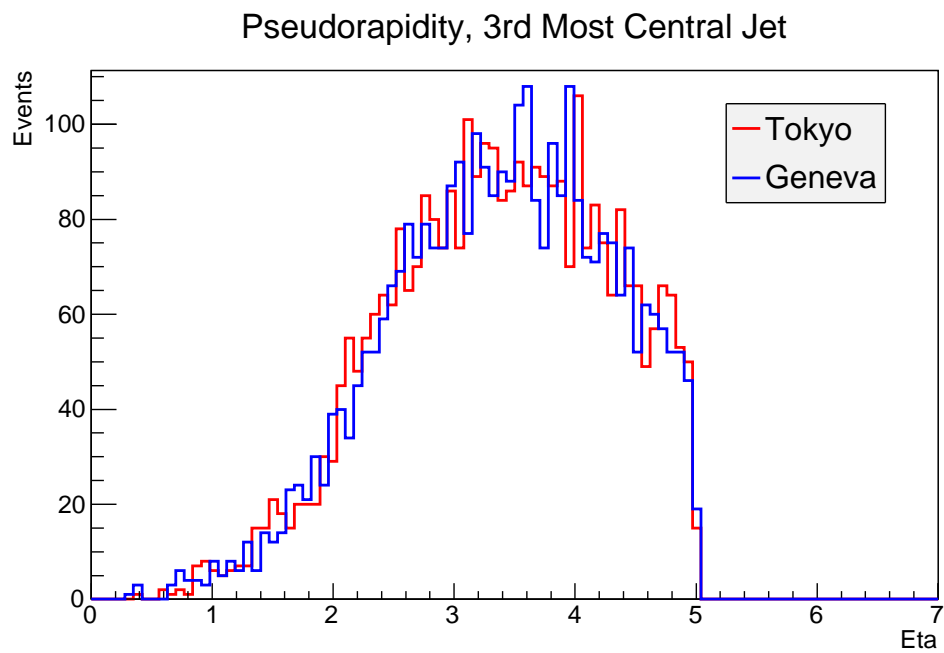


Figure 8: Third most central jet Eta

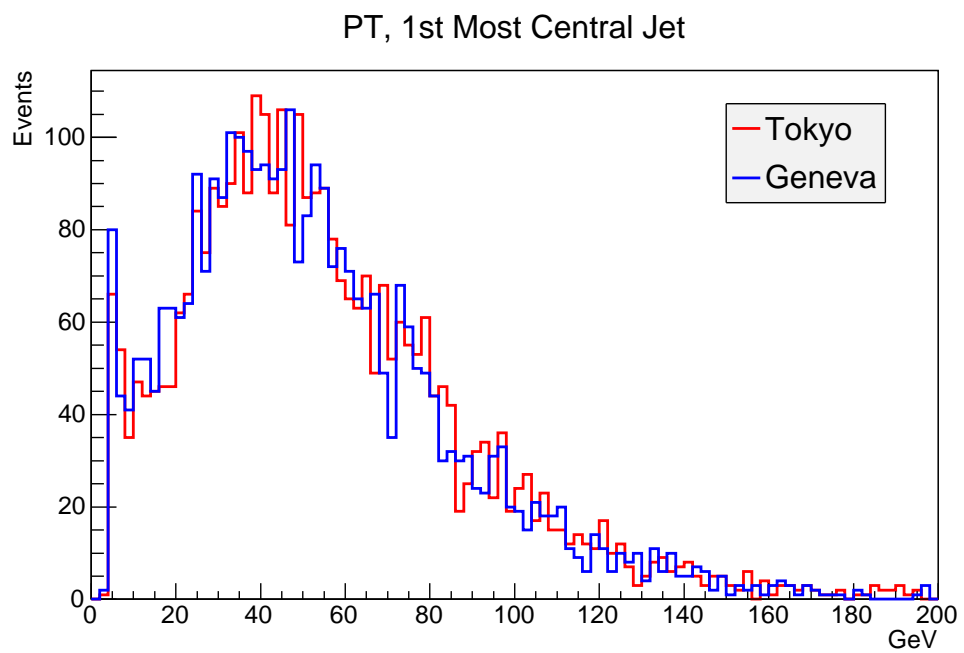


Figure 9: First most central jet pt

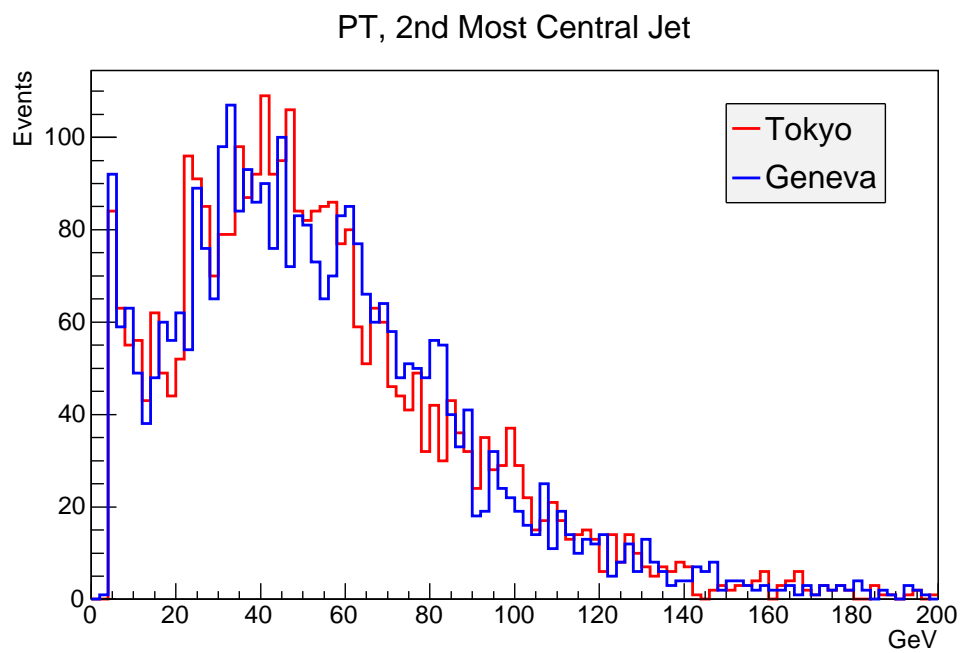


Figure 10: Second most central jet pt

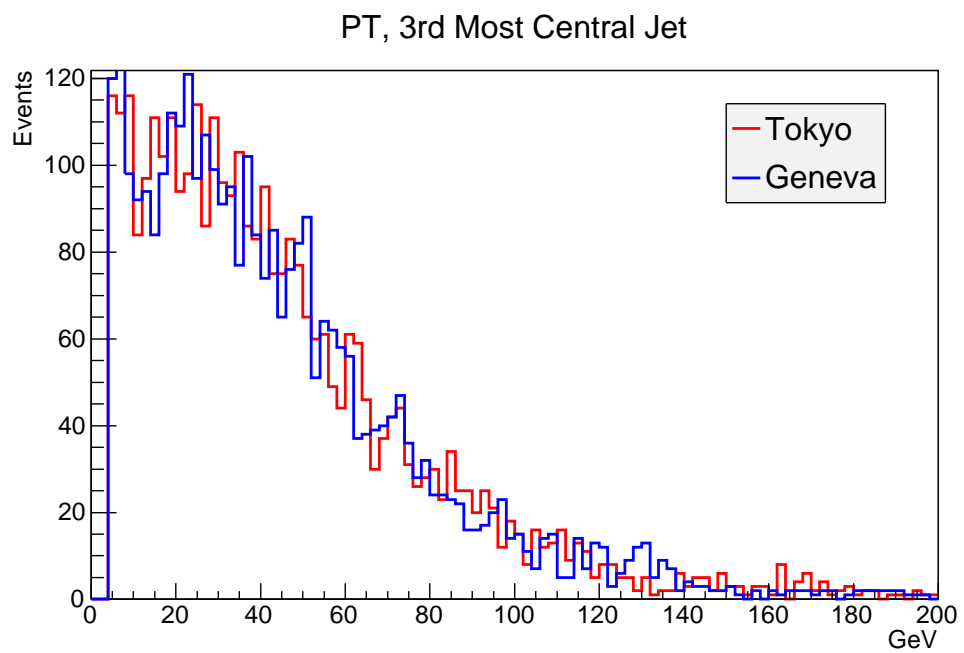


Figure 11: Third most central jet pt

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START NC Count: 0 -- CC Count: 100000 -- Higgs Count: 106
Electron Veto -- NC : 0 -- CC Count: 98842 -- Higgs Count: 103
Missing energy cut -- NC : 0 -- CC Count: 82557 -- Higgs Count: 80
Num Jets cut -- NC : 0 -- CC Count: 14293 -- Higgs Count: 52
Total Energy 100 -- NC : 0 -- CC Count: 13609 -- Higgs Count: 50
q2 -- NC : 0 -- CC Count: 13529 -- Higgs Count: 50
jb -- NC : 0 -- CC Count: 13507 -- Higgs Count: 50
btag -- NC : 0 -- CC Count: 1286 -- Higgs Count: 24
inv Mass Higgs -- NC : 0 -- CC Count: 301 -- Higgs Count: 24
top mass count -- NC : 0 -- CC Count: 8 -- Higgs Count: 5
Electron tagged Count: 1055
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Hbb analysis macro
Tue Dec 10 09:47:05 CET 2013
Psfiles exists
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Figure 12: Hbb analysis