

CMS CSA07 M.C. data samples

b2J/psi

- /BtoJpsi/CMSSW_1_6_0-PreCSA07-HLT-A4/GEN-SIM-DIGI-RECO
556324 events, 154 files, 18 block(s), 858.3GB
- /BtoJpsi/CMSSW_1_6_0-PreCSA07-A1/GEN-SIM-DIGI-RAW
563463 events, 156 files, 16 block(s), 719.8GB
- /BbartoJpsi/CMSSW_1_6_0-PreCSA07-HLT-A4/GEN-SIM-DIGI-RECO
509527 events, 141 files, 16 block(s), 786.6GB
- /BbartoJpsi/CMSSW_1_6_0-PreCSA07-A1/GEN-SIM-DIGI-RAW
520373 events, 144 files, 14 block(s), 665.0GB

Incl b: 13.5 pb-1

CSA08 Incl b: 10 pb-1

p-J/psi

- /Charmonium_Pt_0_20/CMSSW_1_6_0-PreCSA07-HLT-A4/GEN-SIM-DIGI-RECO
1021134 events, 160 files, 21 block(s), 1.0TB
- /Charmonium_Pt_0_20/CMSSW_1_6_0-PreCSA07-A1/GEN-SIM-DIGI-RAW
1039884 events, 163 files, 19 block(s), 895.3GB
- /Charmonium_Pt_20_inf/CMSSW_1_6_0-PreCSA07-HLT-A4/GEN-SIM-DIGI-RECO
1012650 events, 362 files, 37 block(s), 1.8TB
- /Charmonium_Pt_20_inf/CMSSW_1_6_0-PreCSA07-A1/GEN-SIM-DIGI-RAW
1040964 events, 372 files, 32 block(s), 1.5TB

3pb-1

400pb-1

CSA08 p-J/Psi: ~10 pb-1

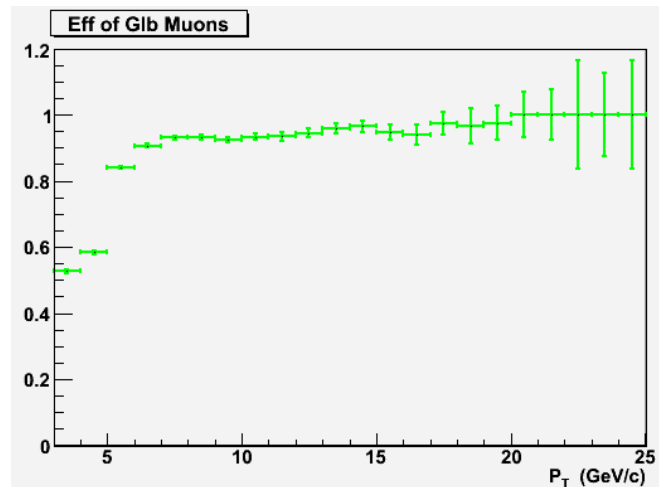
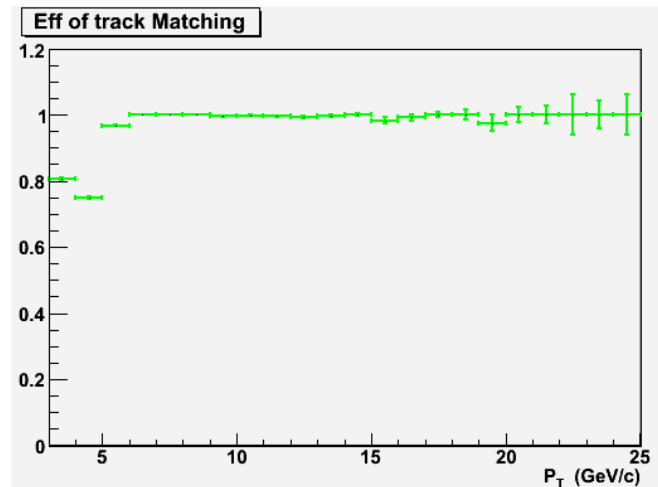
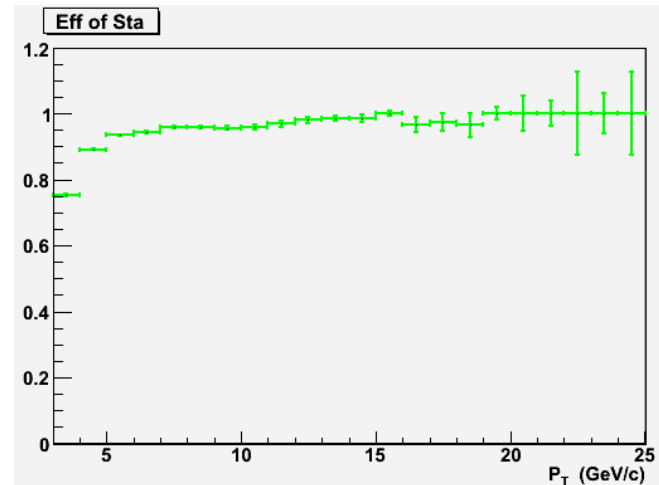
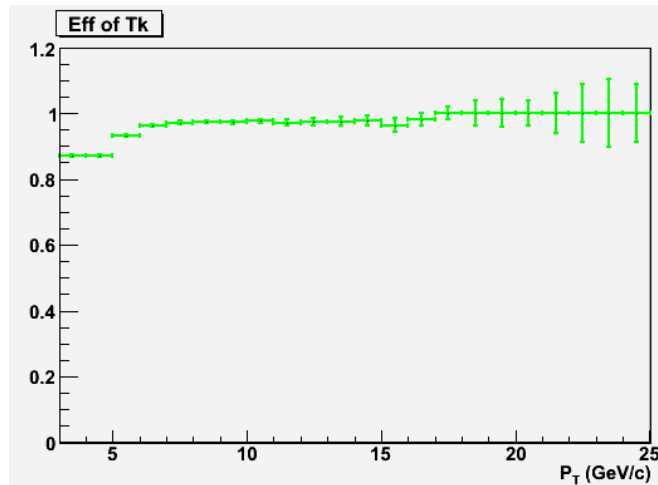
QCD

- /Muon_ppMuX/CMSSW_1_6_0-PreCSA07-HLT-B3/GEN-SIM-DIGI-RAW
20697806 events, 5502 files, 29.3TB
- /Muon_ppMuX/CMSSW_1_6_0-PreCSA07-B2/GEN-SIM-DIGI-RAW
21365589 events, 5679 files, 25.9TB
- /Muon_ppMuX/CMSSW_1_6_7-CSA07-1197906039/GEN-SIM-DIGI-RAW
5555458 events, 5487 files, 9.6TB

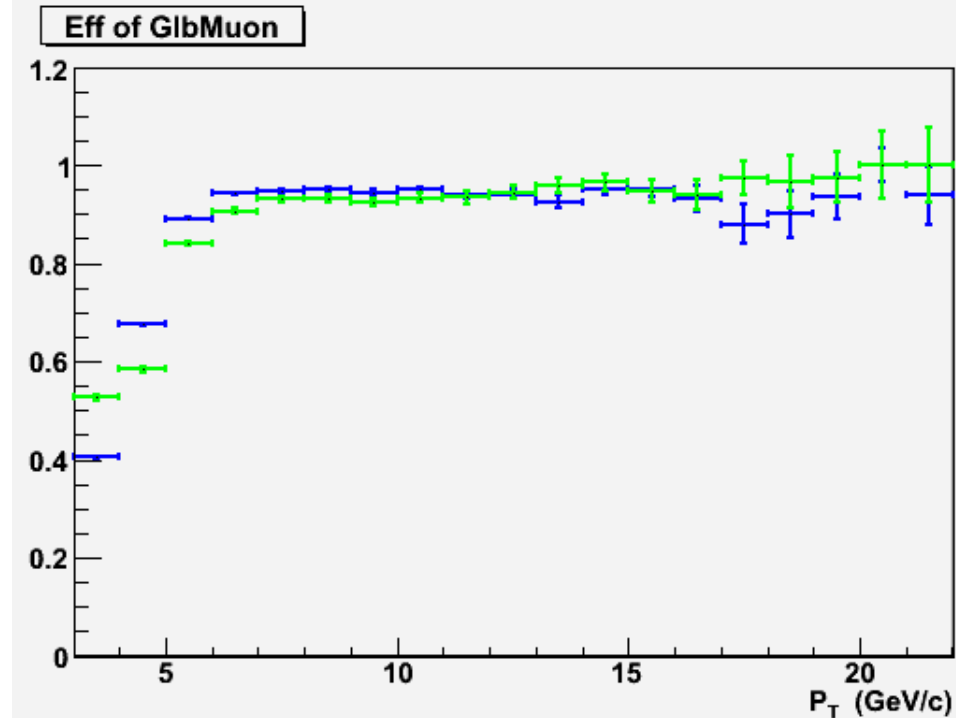
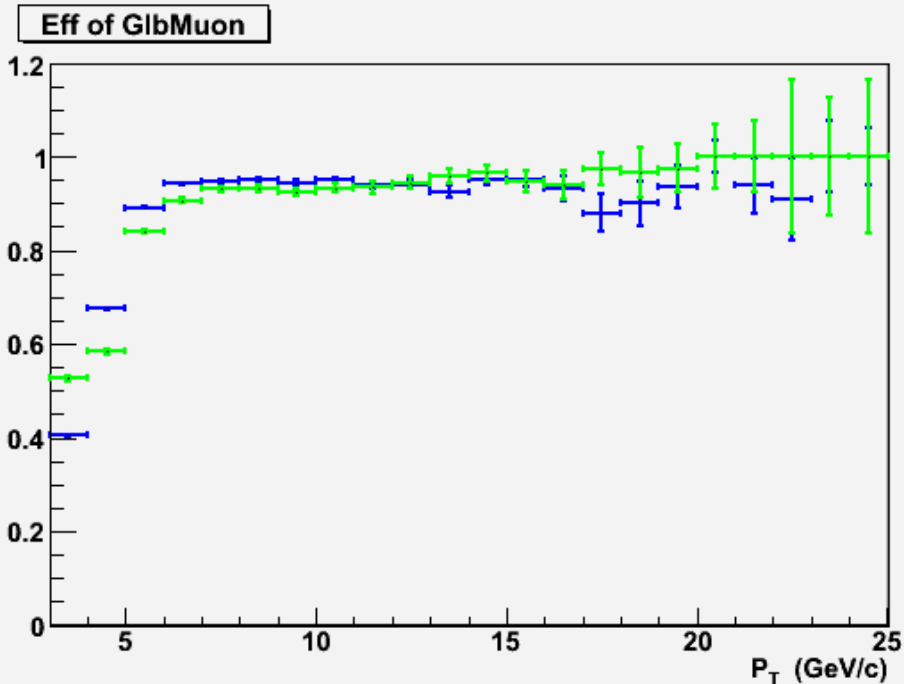
QCD: 0.45 pb-1

CSA08 QCD: 0.45 pb-1

New: Tag μ $p_T > 5 \text{ GeV}$



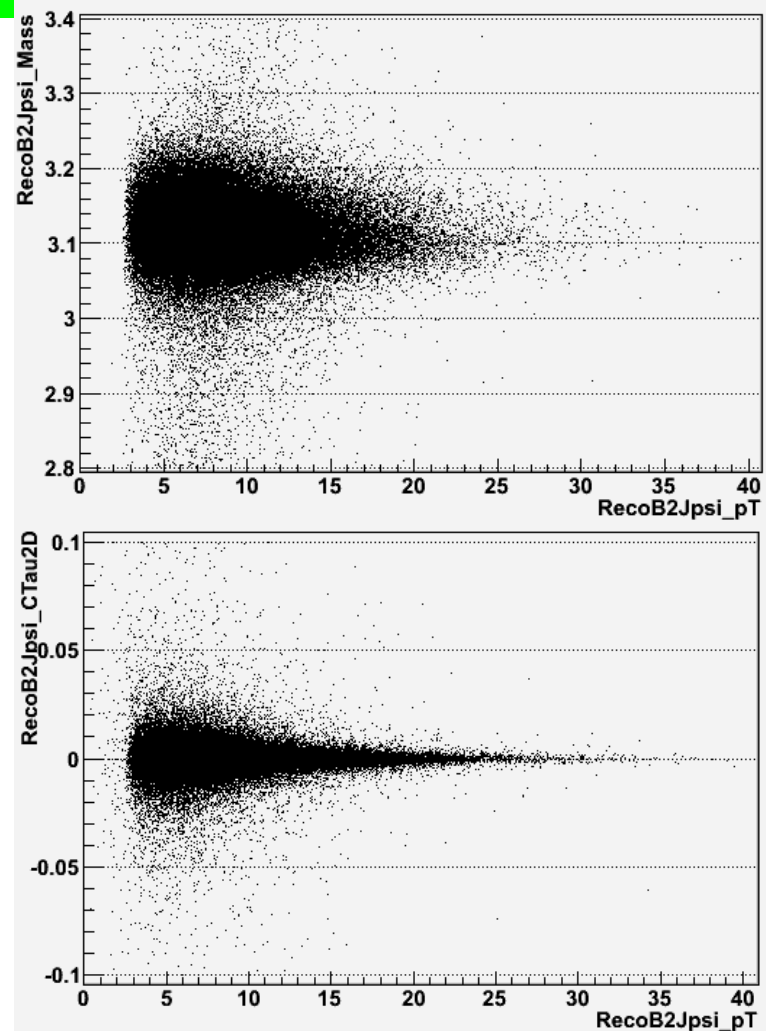
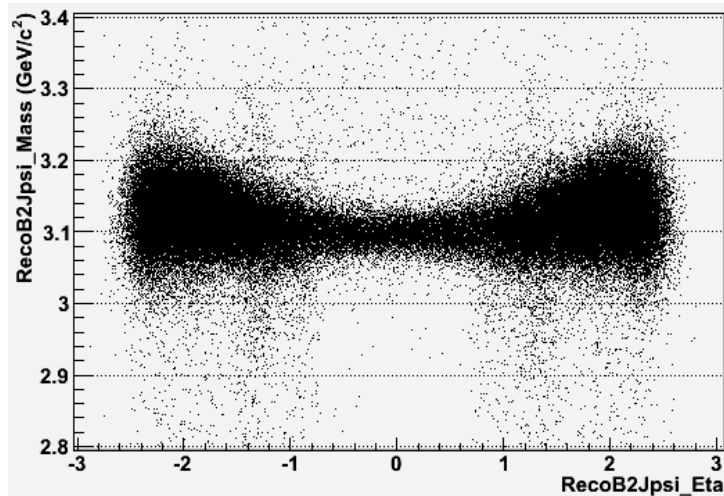
Glb Muon efficiency II



M.C. Truth

Tag&Probe

Resolution: mass & ctau $p\text{-J}/\Psi$



pT: 9-10 GeV

p-jpsi: 11545
b:4288

1. a finite experimental resolution on each measurement

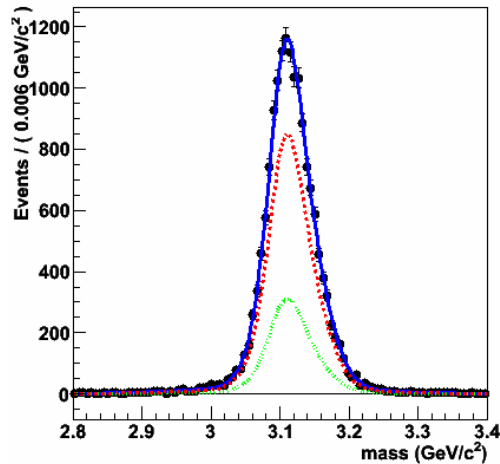
$$F_I(t) = \exp(-t/\tau)$$

$$F_R(t) = \exp(-t/\tau) \otimes G(t, \mu, \sigma) \\ \equiv \int dt' \exp(-t'/\tau) G(t-t', \mu, \sigma)$$

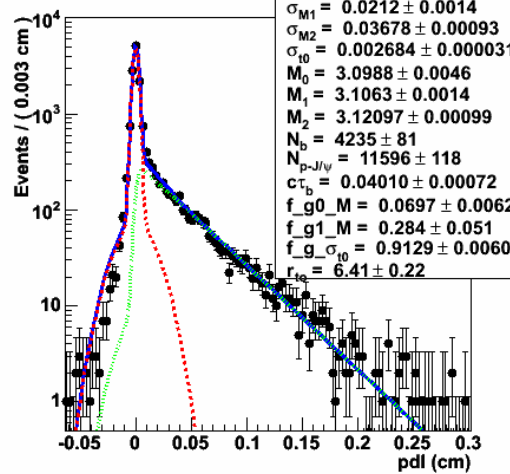
$$F_E(t, dt) \\ = \exp(-t/\tau) \otimes G(t, \mu, dt)$$

$$F_E(t, dt) \\ = \exp(-t/\tau) \otimes G(t, \mu, s \cdot dt)$$

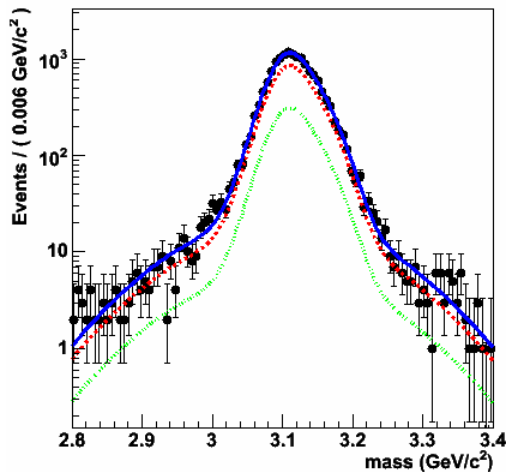
A RooPlot of "mass"



A RooPlot of "proper time"



A RooPlot of "mass"



A RooPlot of "proper time"

