Relative Tracking Efficiency .vs. ϕ (J/ψ data)

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Tracking Meeting
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- Run number Range (Datasets : jbot0h, jpmm08, jpmm09)

  138425 - 152625 (2 miss), 2002

  152626 - 156487 (1 miss), 2002

  159602 - 166000 (1 miss), 2003

  166001 - 168889 (J/ψ yield drop)

- Definition

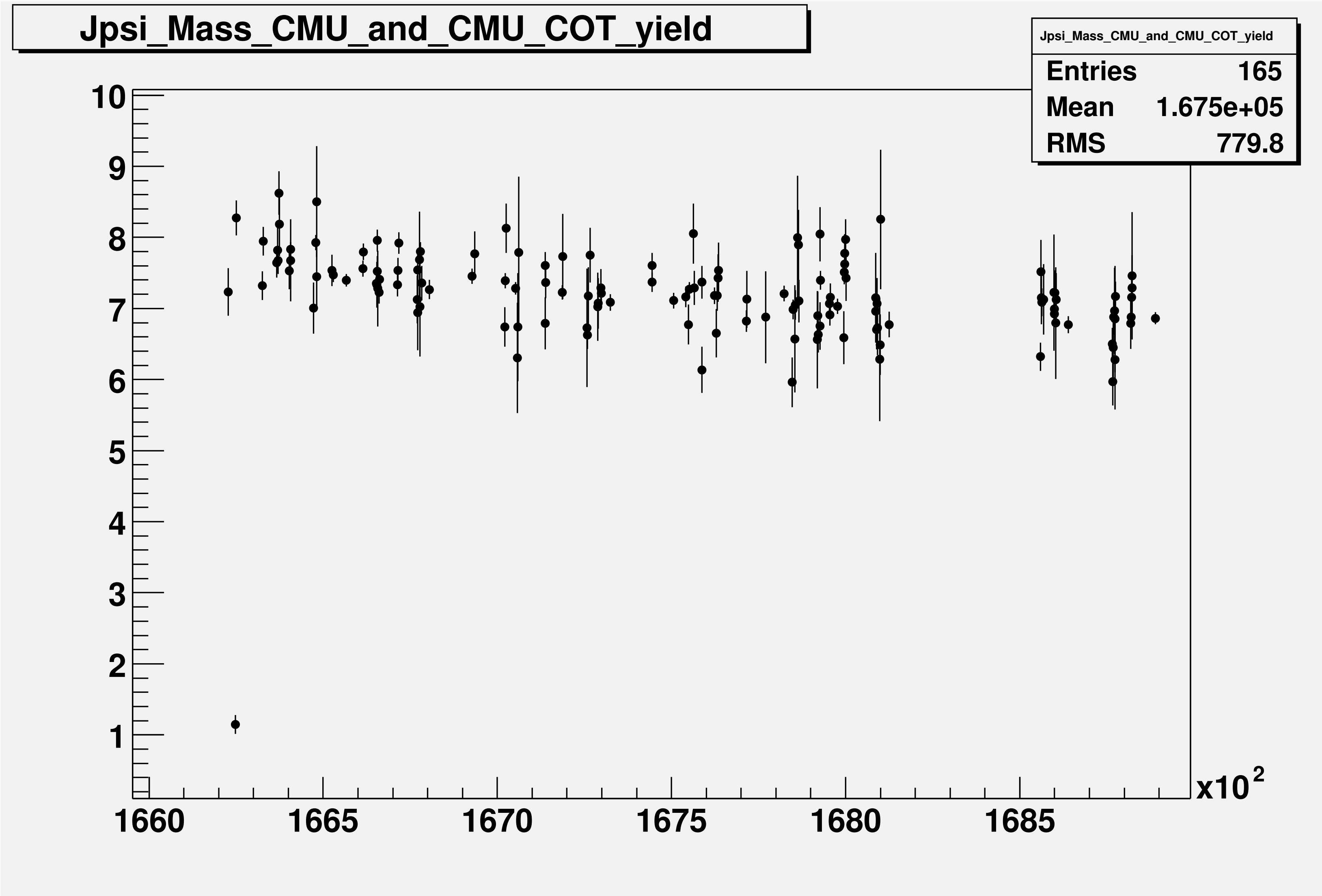
  Prerequirements : L1_CMUP6_PT4,
  JPSI_CMUP4_CMU1.5,
  JPSI_CMU_CMU_L2_DPS

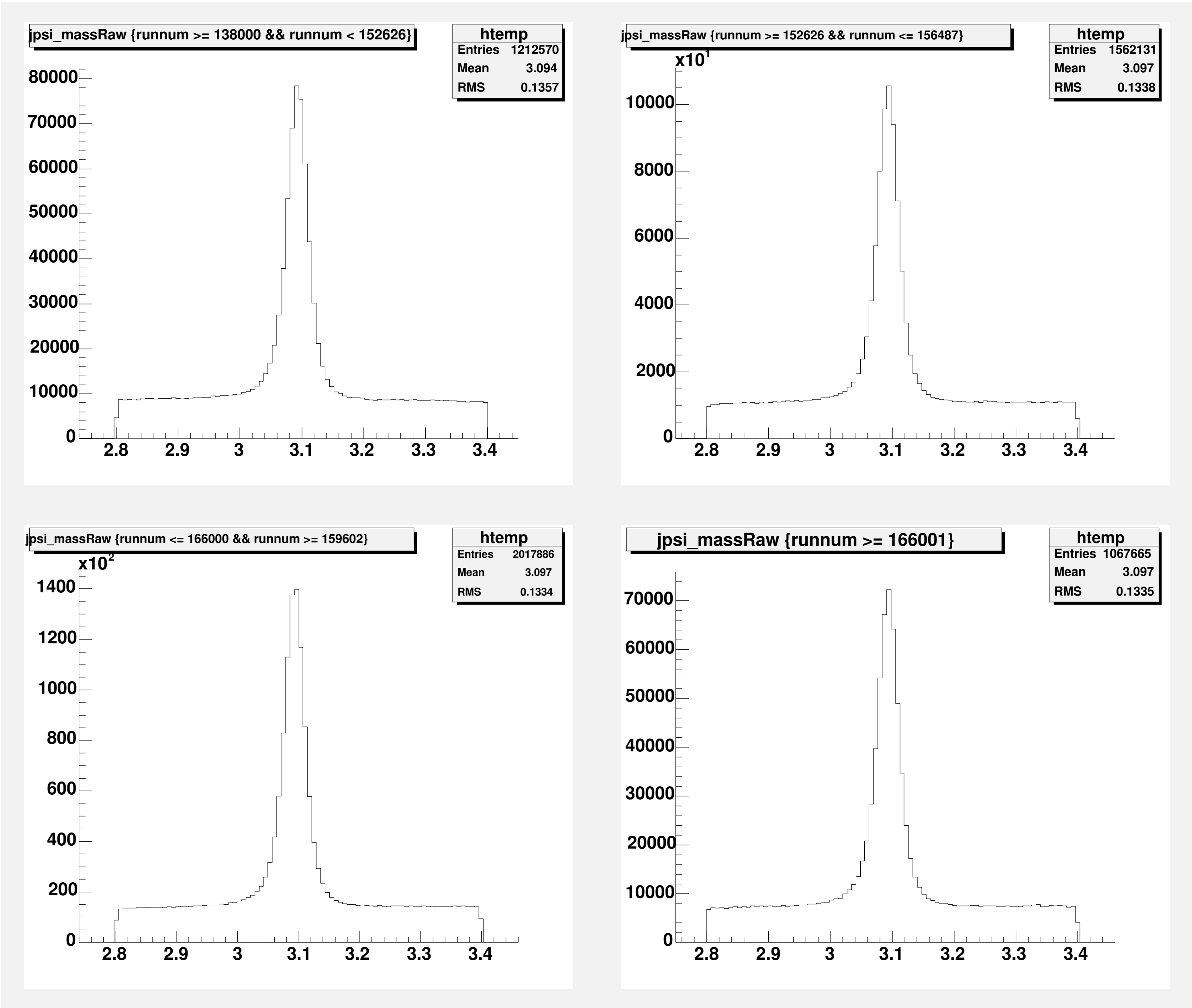
  Triggered muon : $P_T > 4$, CMUP

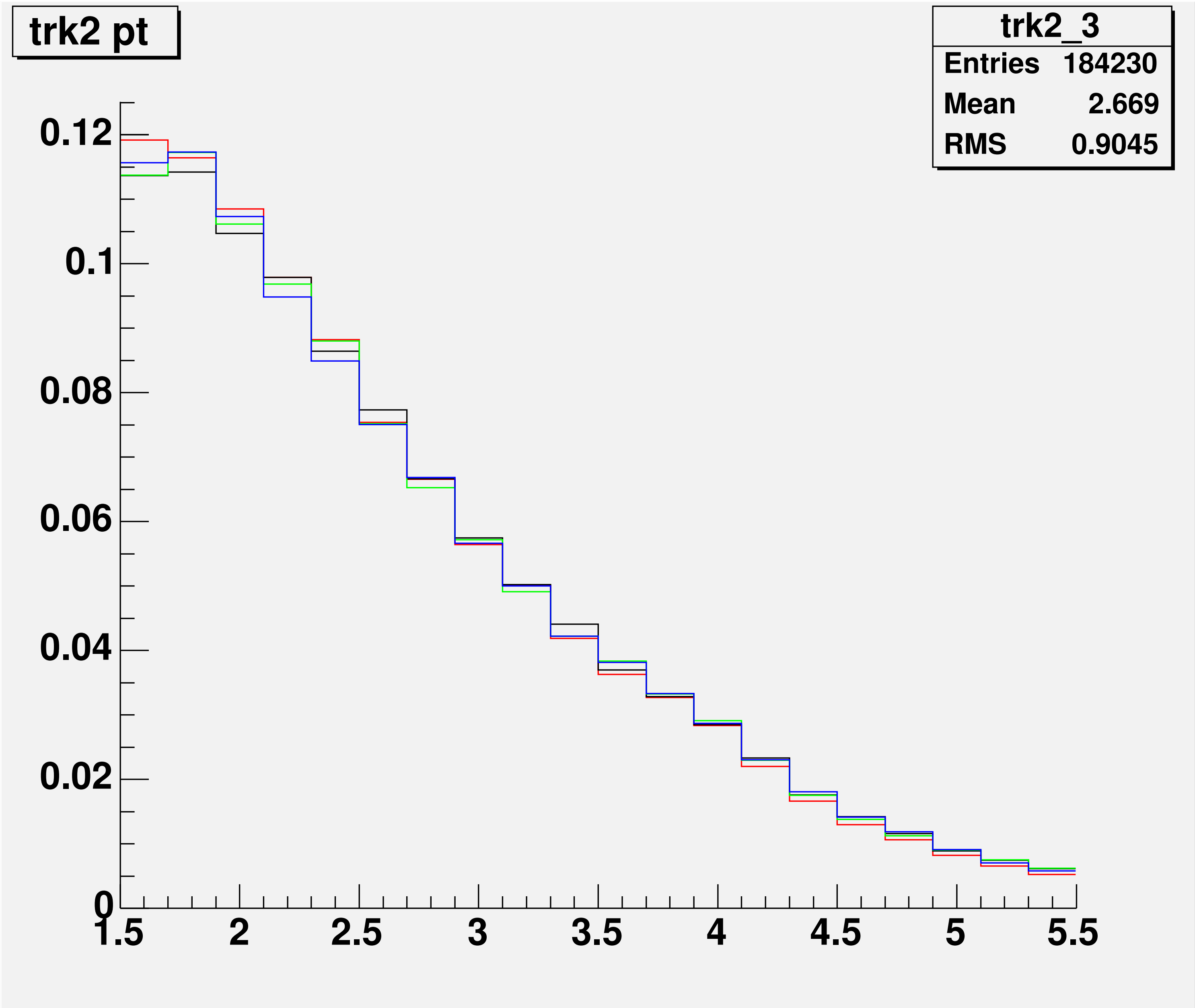
  Probe muon : oppsite side to triggerd muon

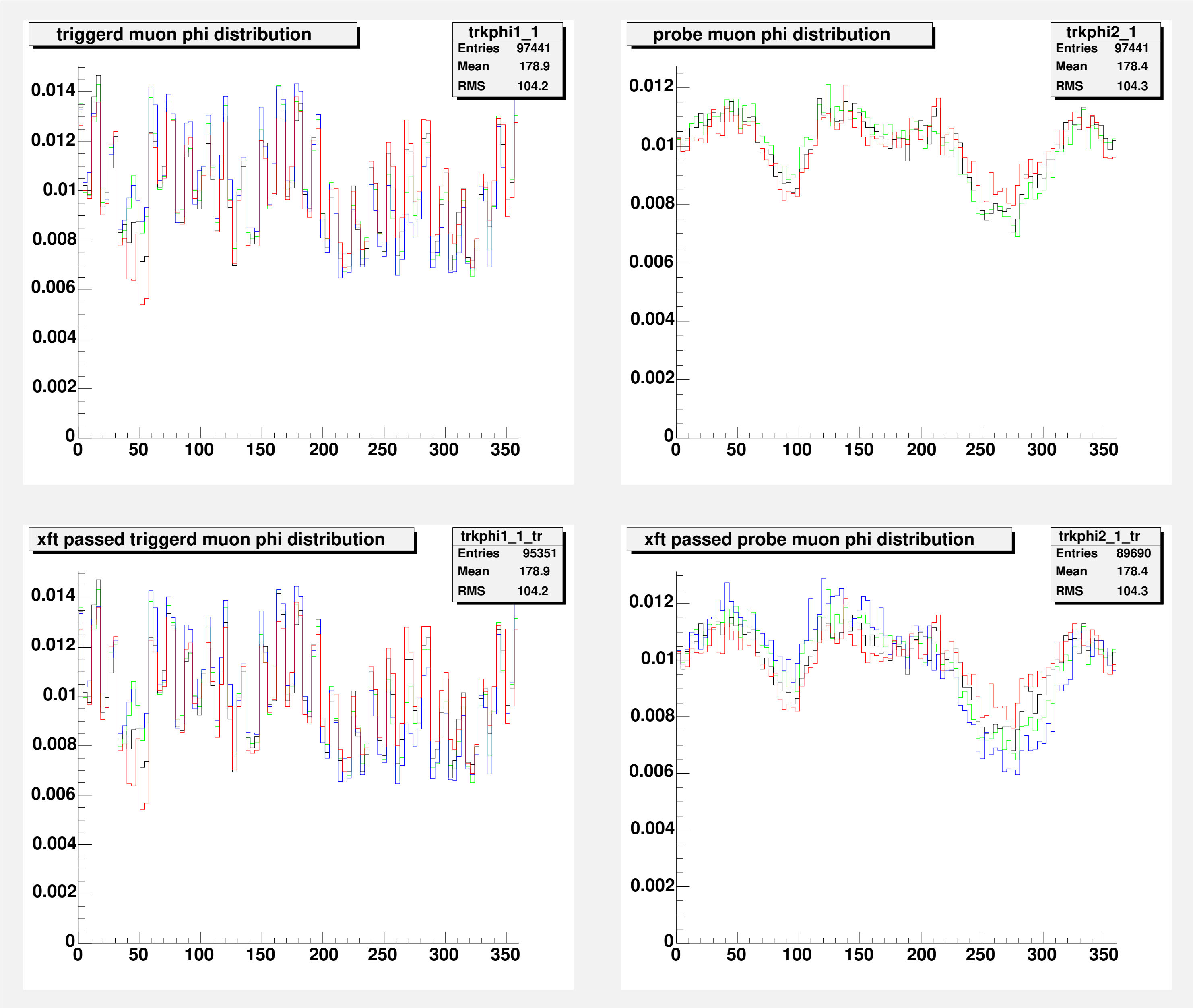
  XFT passed : Track ϕ, P_T matched to XFT TL2D

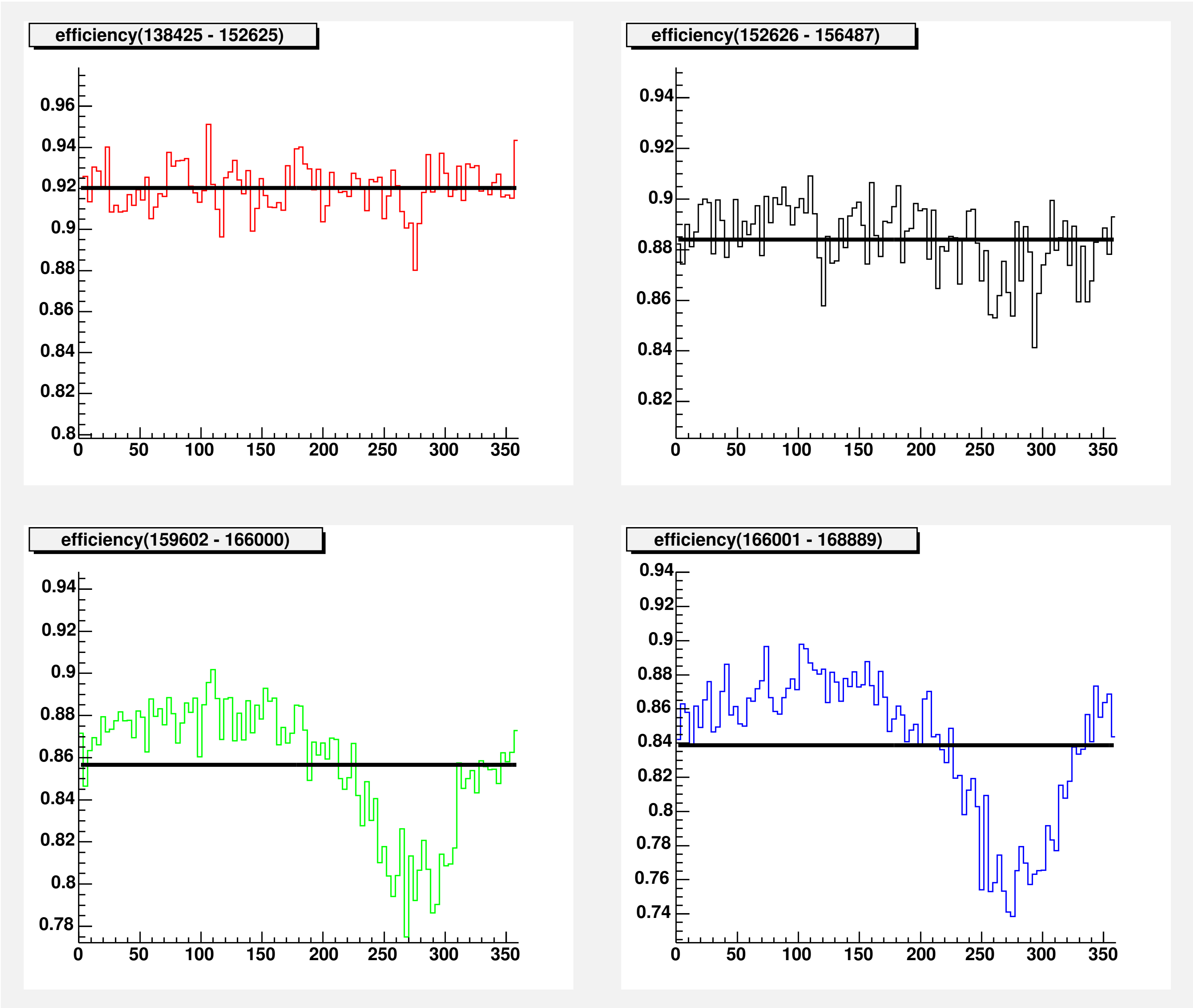
	Pre-Shutdown	Pre-Shutdown	Post-Shutdown	
Good Run Yield Cut	152598 - 153987	152598 - 153987 exclude bad run	162519 - 166073	Bad Run
Jpsi	7.54 ± 0.02	10.60 ± 0.03	10.02 ± 0.03	152944
COT	7.56 ± 0.02	10.66 ± 0.04	10.02 ± 0.03	153327
SVX	4.52 ± 0.02	6.11 ± 0.03	6.95 ± 0.02	153343
CMU and CMU	5.77 ± 0.02	8.13 ± 0.03	7.70 ± 0.02	153344
CMU and CMU COT	5.77 ± 0.02	8.16 ± 0.04	7.68 ± 0.02	153389
CMU and CMU SVX	3.36 ± 0.02	4.71 ± 0.03	5.19 ± 0.02	153412
CMU and CMX	1.81 ± 0.01	2.51 ± 0.02	2.49 ± 0.02	153416
CMU and CMX COT	1.80 ± 0.01	2.52 ± 0.02	2.50 ± 0.01	153446
CMU and CMX SVX	1.18 ± 0.01	1.60 ± 0.02	1.79 ± 0.01	153447
CMU and CMUP	2.97 ± 0.01	4.21 ± 0.02	4.01 ± 0.01	
CMU and CMUP COT	2.96 ± 0.01	4.22 ± 0.02	4.05 ± 0.01	
CMU and CMUP SVX	1.74 ± 0.01	2.39 ± 0.02	2.73 ± 0.01	
CMUP and CMX	0.65 ± 0.01	0.87 ± 0.01	0.87 ± 0.01	
CMUP and CMX COT	0.62 ± 0.01	0.87 ± 0.01	0.88 ± 0.01	
CMUP and CMX SVX	0.41 ± 0.01	0.56 ± 0.01	0.62 ± 0.01	


Jpsi_Mass_CMU_and_CMU_COT_yield
Jpsi_Mass_CMU_and_CMU_COT_yield
Entries 165
Mean 1.675e+05
RMS 779.8
10
9
8
7
6
5
4
3
2
1
1660
1665
1670
1675
1680
1685
x10^2


jpsi_massRaw {runnum >= 138000 && runnum < 152626}
htemp
Entries 1212570
Mean 3.094
RMS 0.1357
jpsi_massRaw {runnum >= 152626 && runnum <= 156487}
htemp
Entries 1562131
Mean 3.097
RMS 0.1338
x10^1
jpsi_massRaw {runnum <= 166000 && runnum >= 159602}
htemp
Entries 2017886
Mean 3.097
RMS 0.1334
x10^2
jpsi_massRaw {runnum >= 166001}
htemp
Entries 1067665
Mean 3.097
RMS 0.1335


trk2 pt
trk2_3
Entries 184230
Mean 2.669
RMS 0.9045
0.12
0.1
0.08
0.06
0.04
0.02
0
1.5
2
2.5
3
3.5
4
4.5
5
5.5


triggerd muon phi distribution
trkphi1_1
Entries 97441
Mean 178.9
RMS 104.2
probe muon phi distribution
trkphi2_1
Entries 97441
Mean 178.4
RMS 104.3
xft passed triggerd muon phi distribution
trkphi1_1_tr
Entries 95351
Mean 178.9
RMS 104.2
xft passed probe muon phi distribution
trkphi2_1_tr
Entries 89690
Mean 178.4
RMS 104.3



efficiency(138425 - 152625)
efficiency(152626 - 156487)
efficiency(159602 - 166000)
efficiency(166001 - 168889)