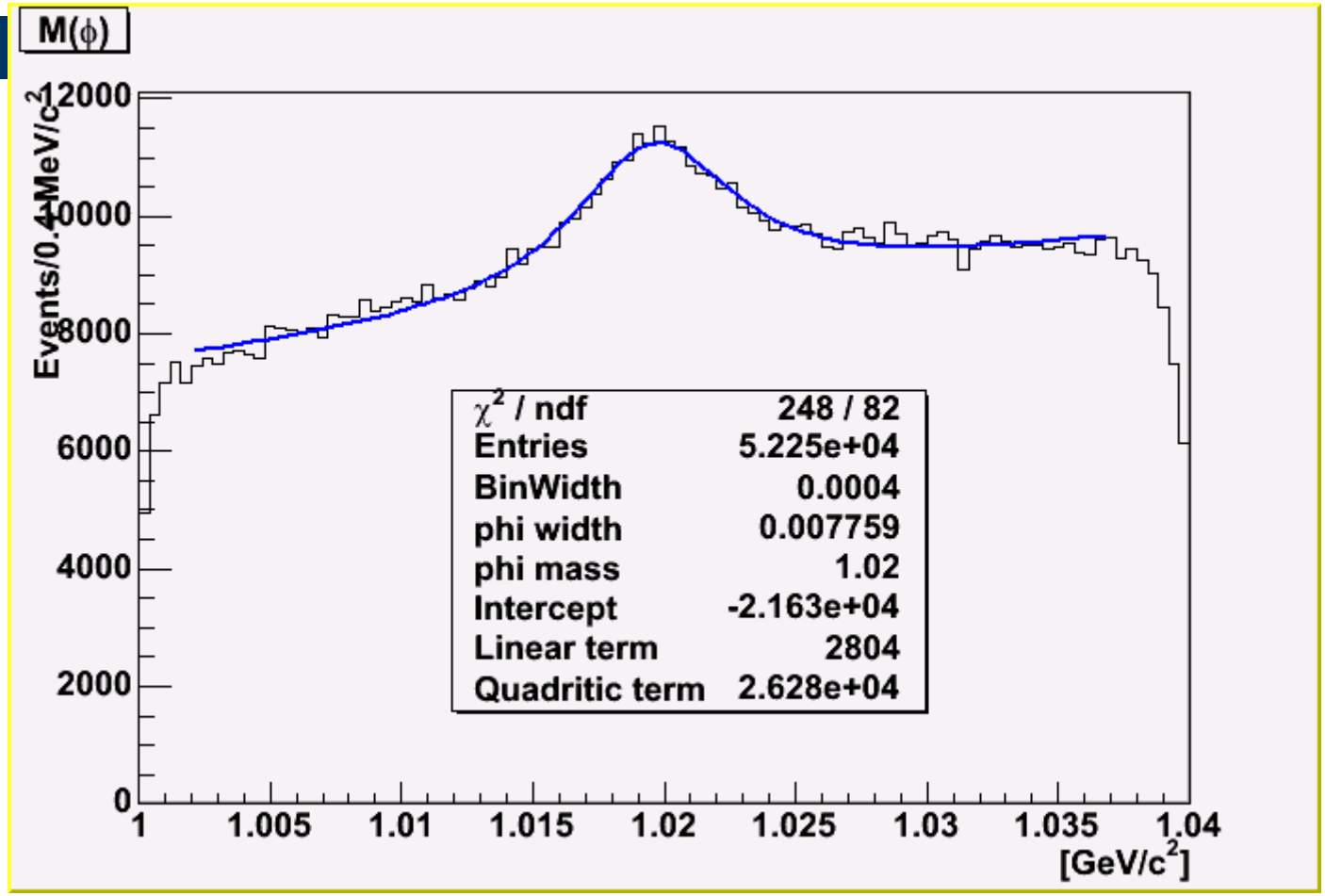
Rochester Group Meeting 10/25/04

Geumbong Yu

Phi fit.

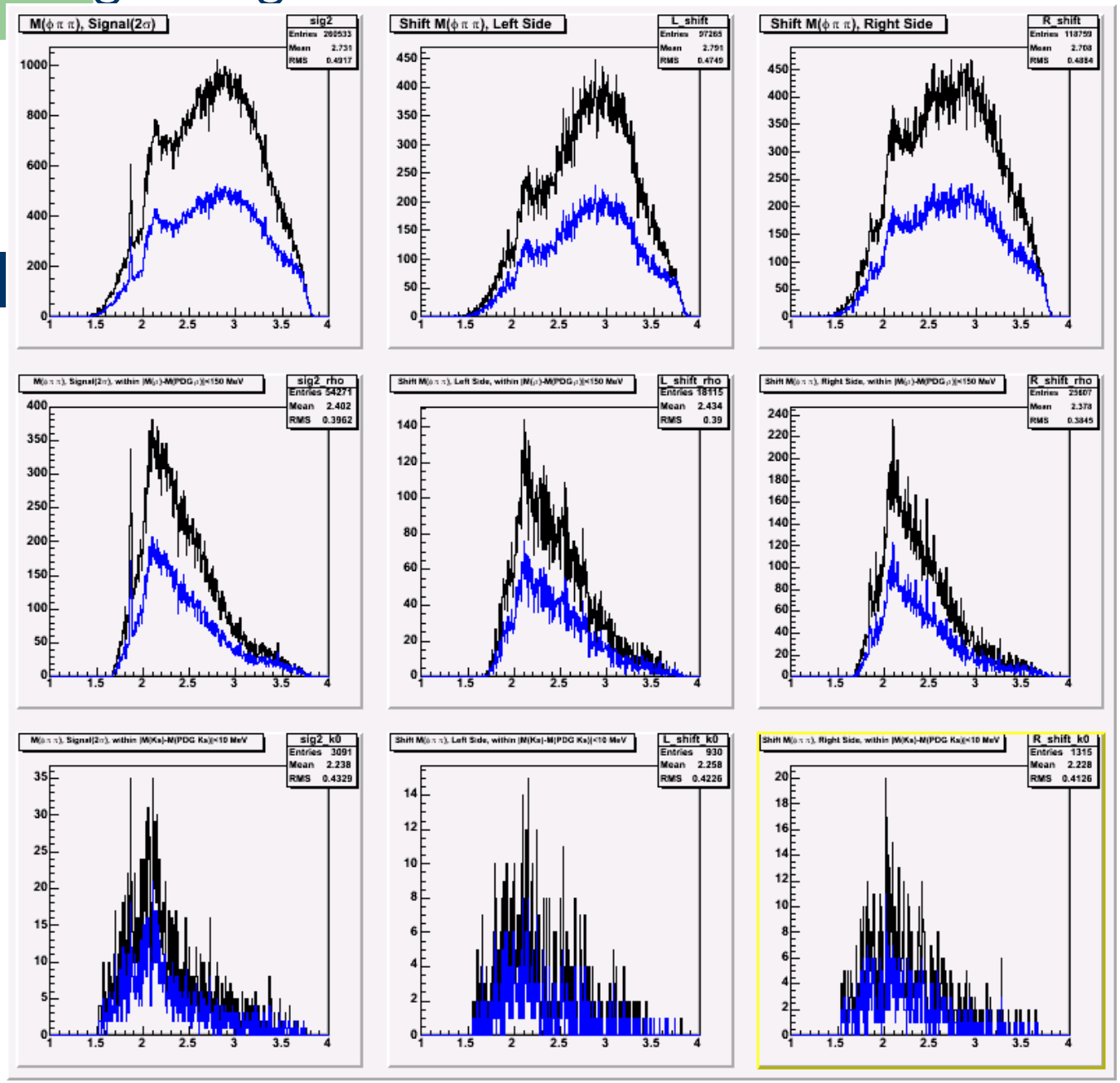

M(ϕ)
Events/0.4MeV/c²
12000
10000
8000
6000
4000
2000
0
1
1.005
1.01
1.015
1.02
1.025
1.03
1.035
1.04
[GeV/c²]
χ² / ndf 248 / 82
Entries 5.225e+04
BinWidth 0.0004
phi width 0.007759
phi mass 1.02
Intercept -2.163e+04
Linear term 2804
Quadritic term 2.628e+04

Phi Pi Pi

Clean cut

One cand only

2sigma signal | Left sideband | Right sideband

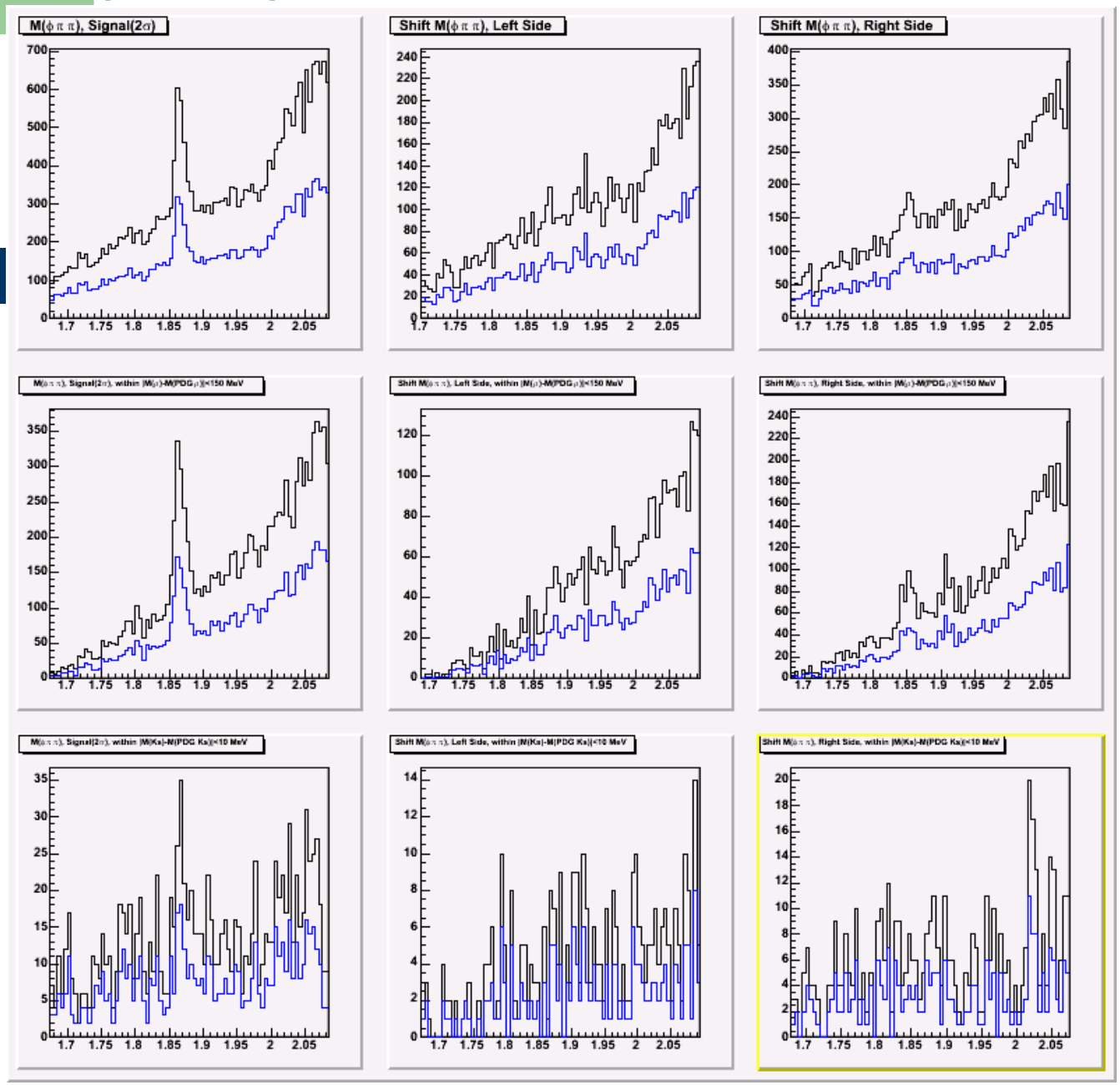


Phi Pi Pi

Clean cut

One cand only

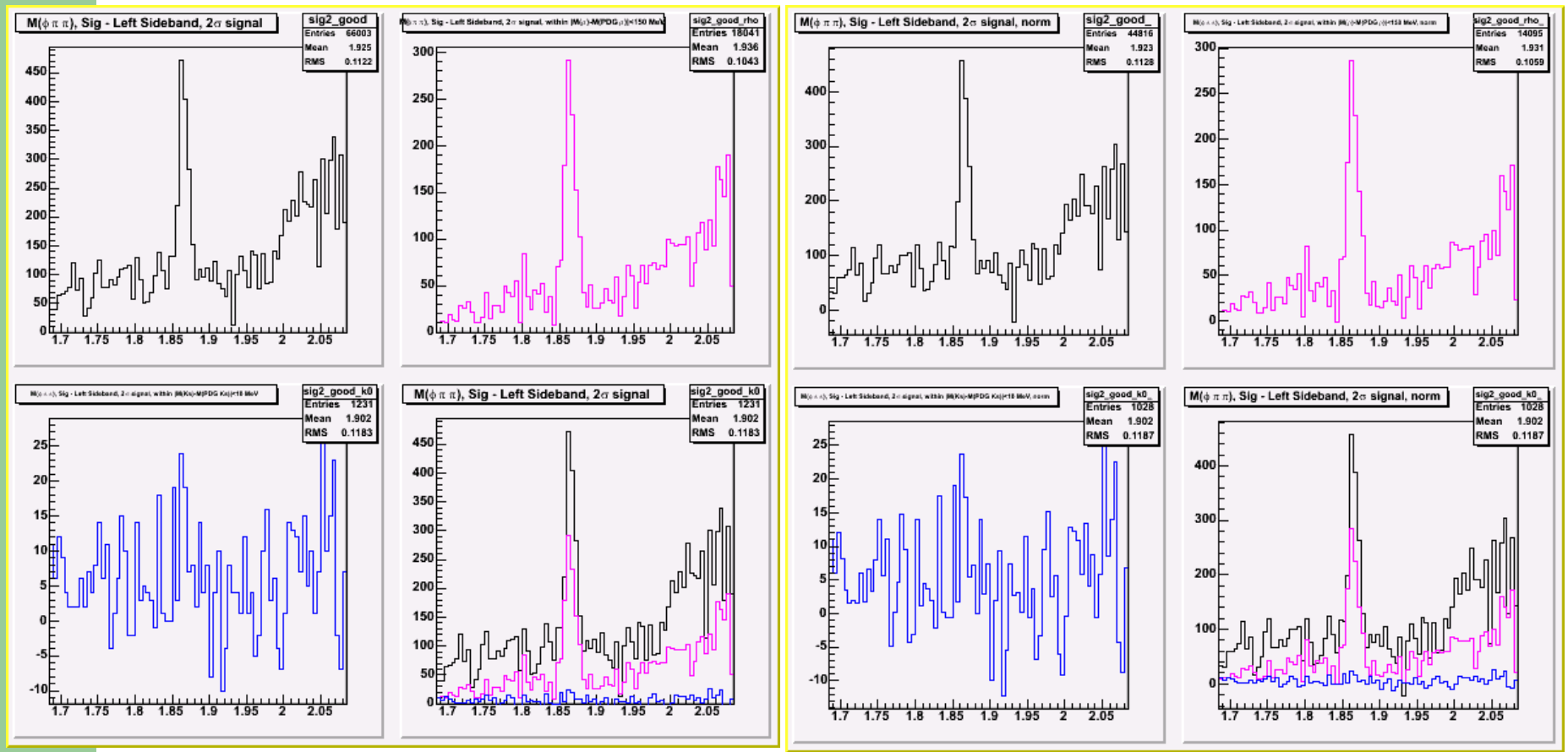
2sigma signal | Left sideband | Right sideband



|M(Rho->pipi)-M(PDG rho)|<150 MeV
|M(Ks->pipi)-M(PDG Ks)| <10 MeV

Phi Pi Pi(2sigma signal)

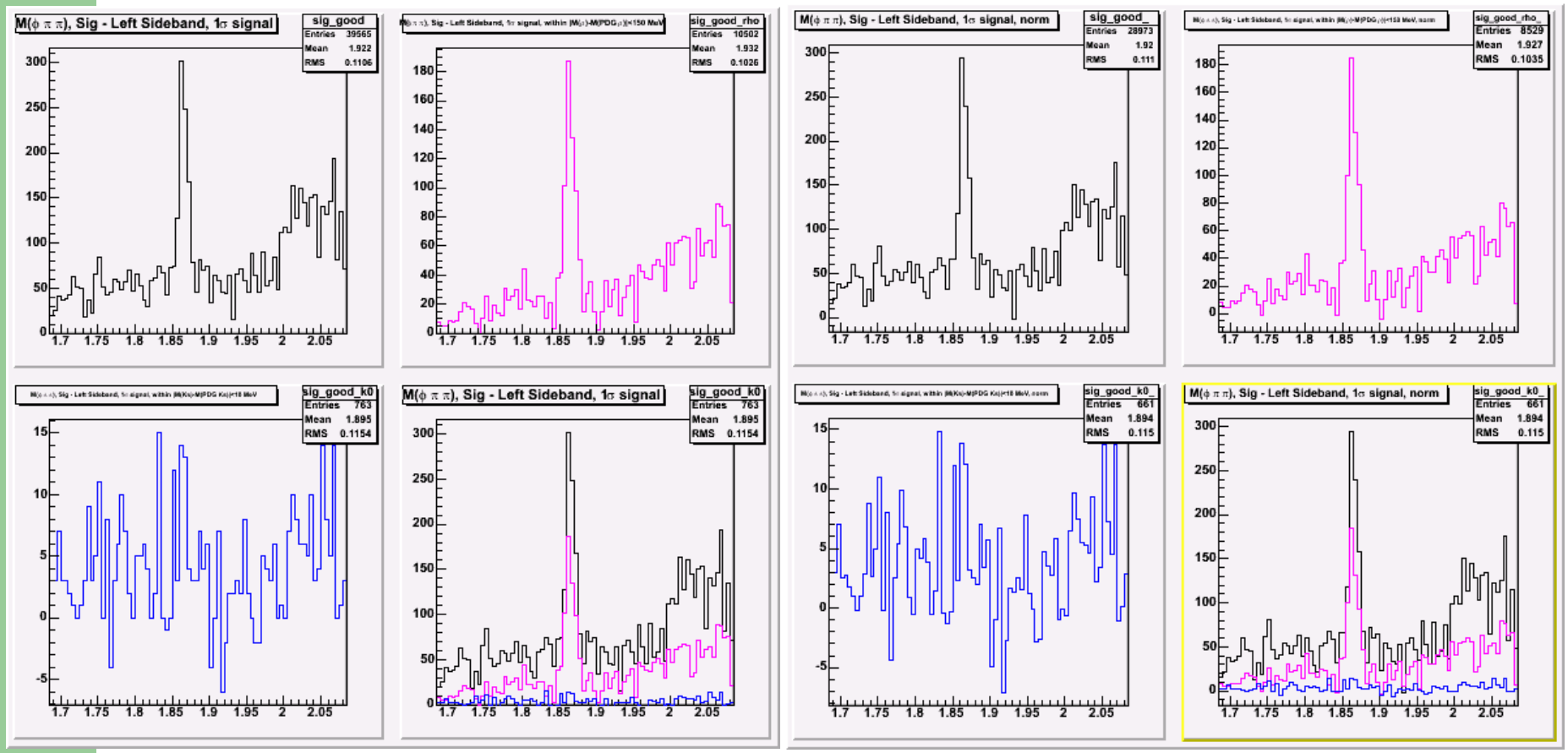
Normalized



|M(Rho->pipi)-M(PDG rho)|<150 MeV
|M(Ks->pipi)-M(PDG Ks)| <10 MeV

Phi Pi Pi (1sigma signal)

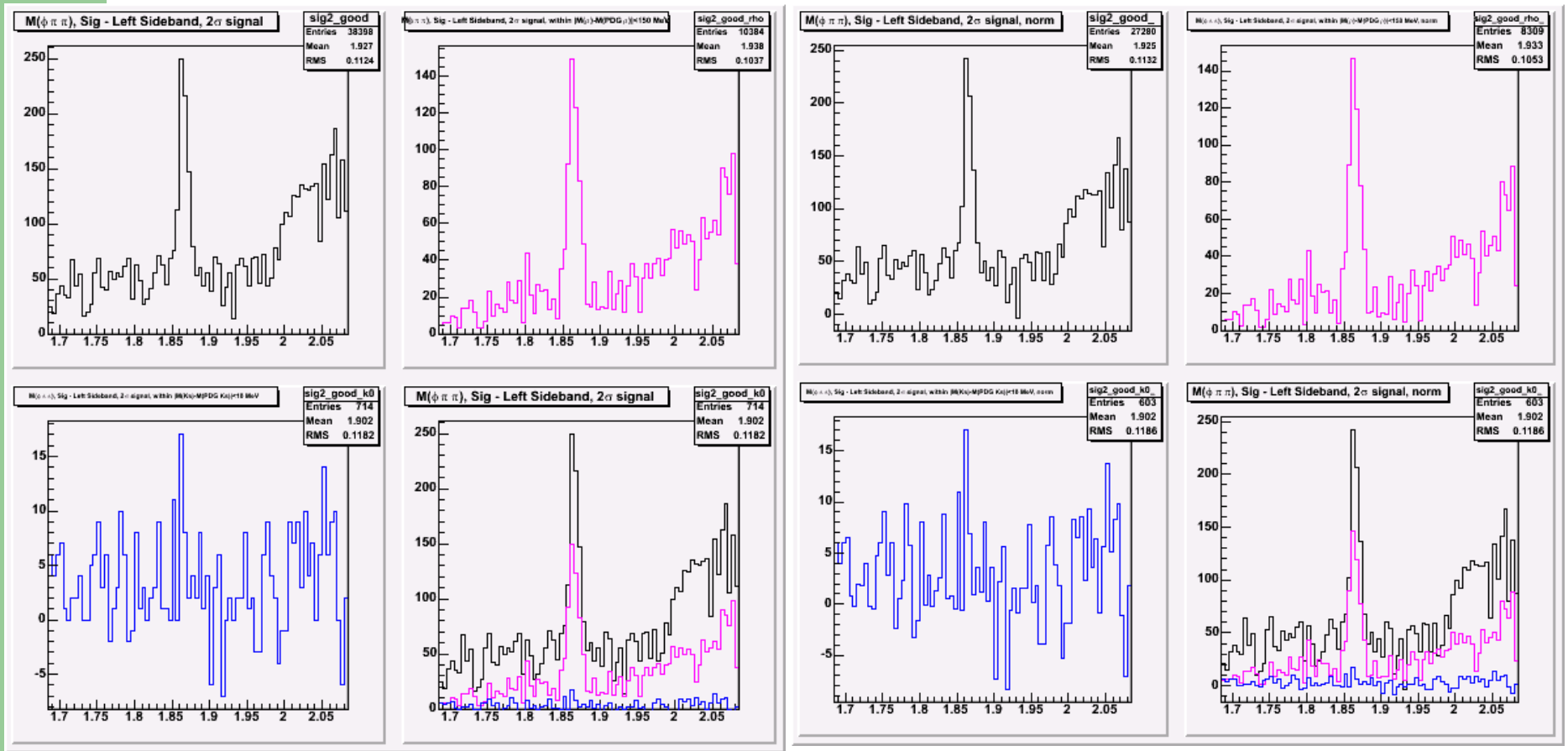
Normalized



|M(Rho->pipi)-M(PDG rho)|<150 MeV
|M(Ks->pipi)-M(PDG Ks)| <10 MeV

Phi Pi Pi (2sigma, one cand only)

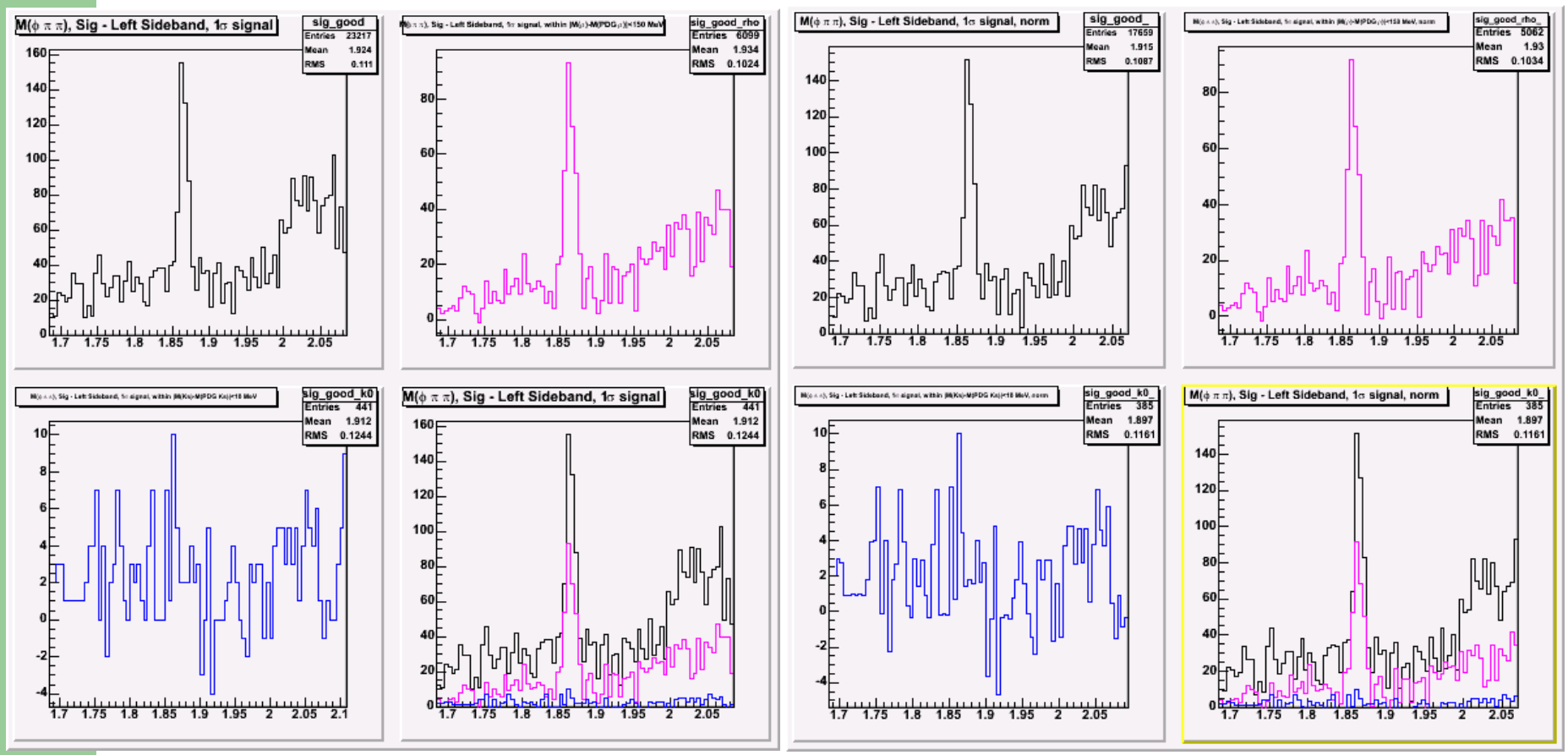
Normalized



|M(Rho->pipi)-M(PDG rho)|<150 MeV
|M(Ks->pipi)-M(PDG Ks)| <10 MeV

Phi Pi Pi (1sigma, one cand only)

Normalized

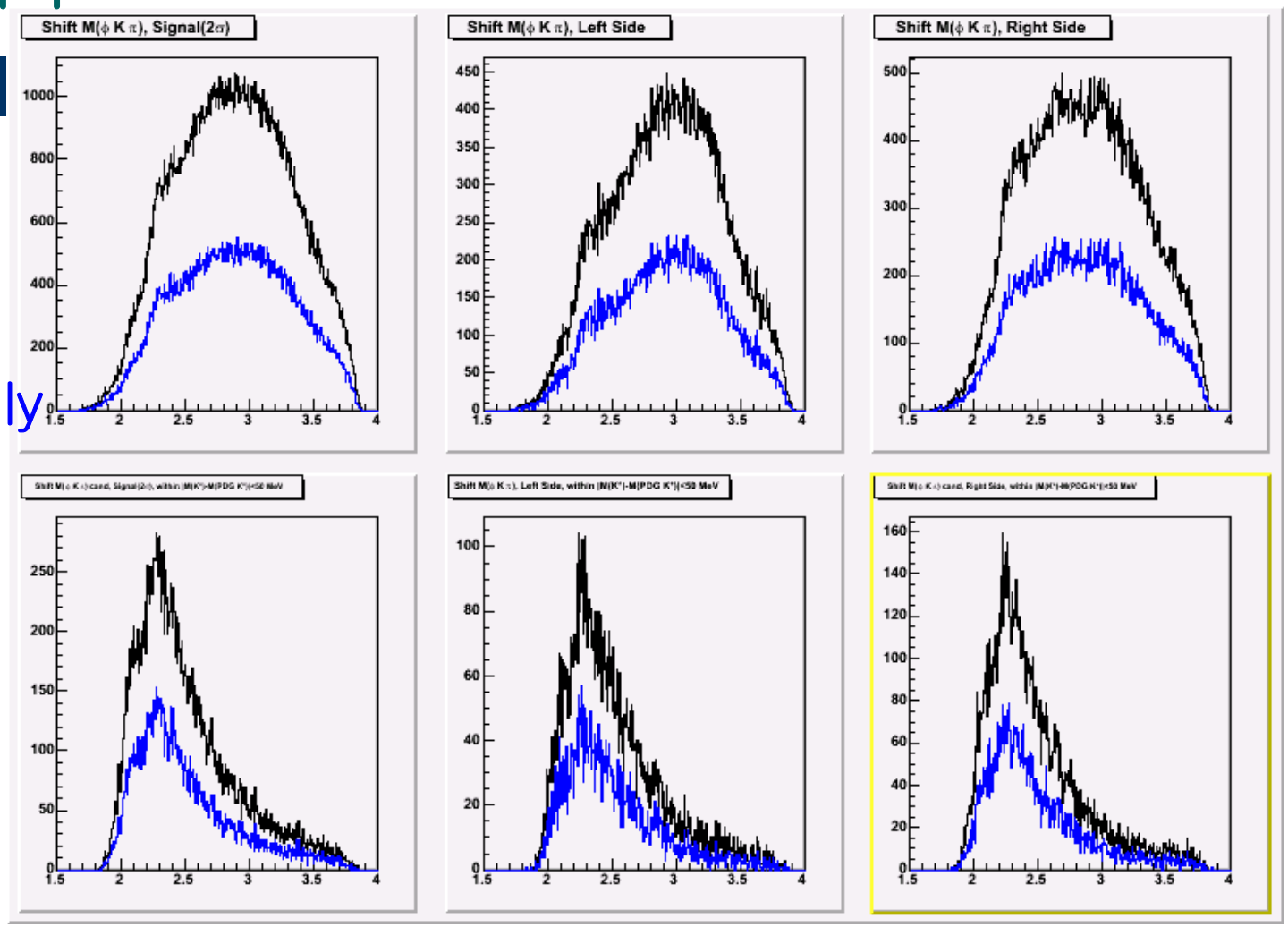


Phi K Pi

2sigma signal

Left sideband

Right sideband



Clean cut

One cand only

2sigma signal

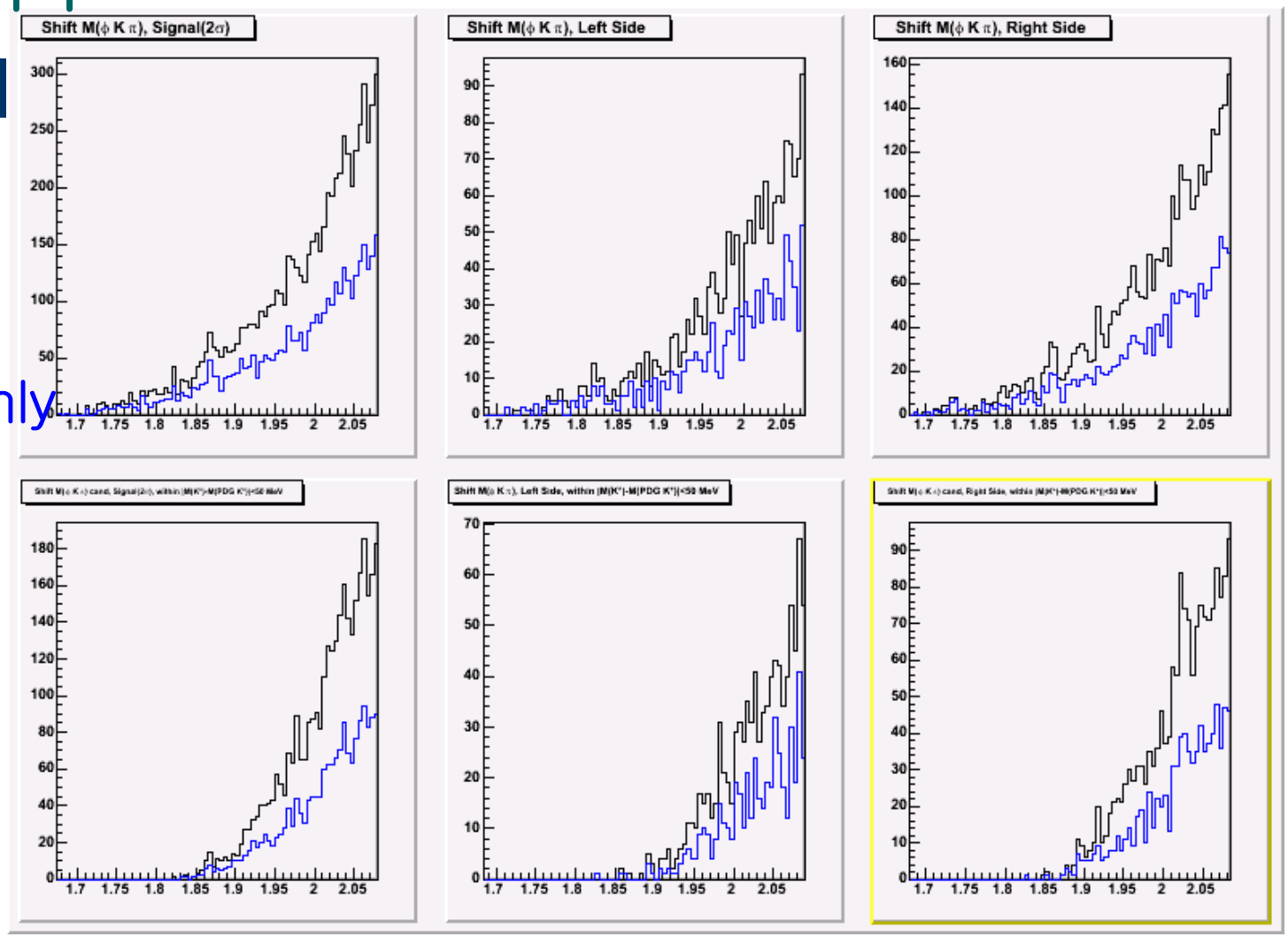
Phi K Pi

Left sideband

Right sideband

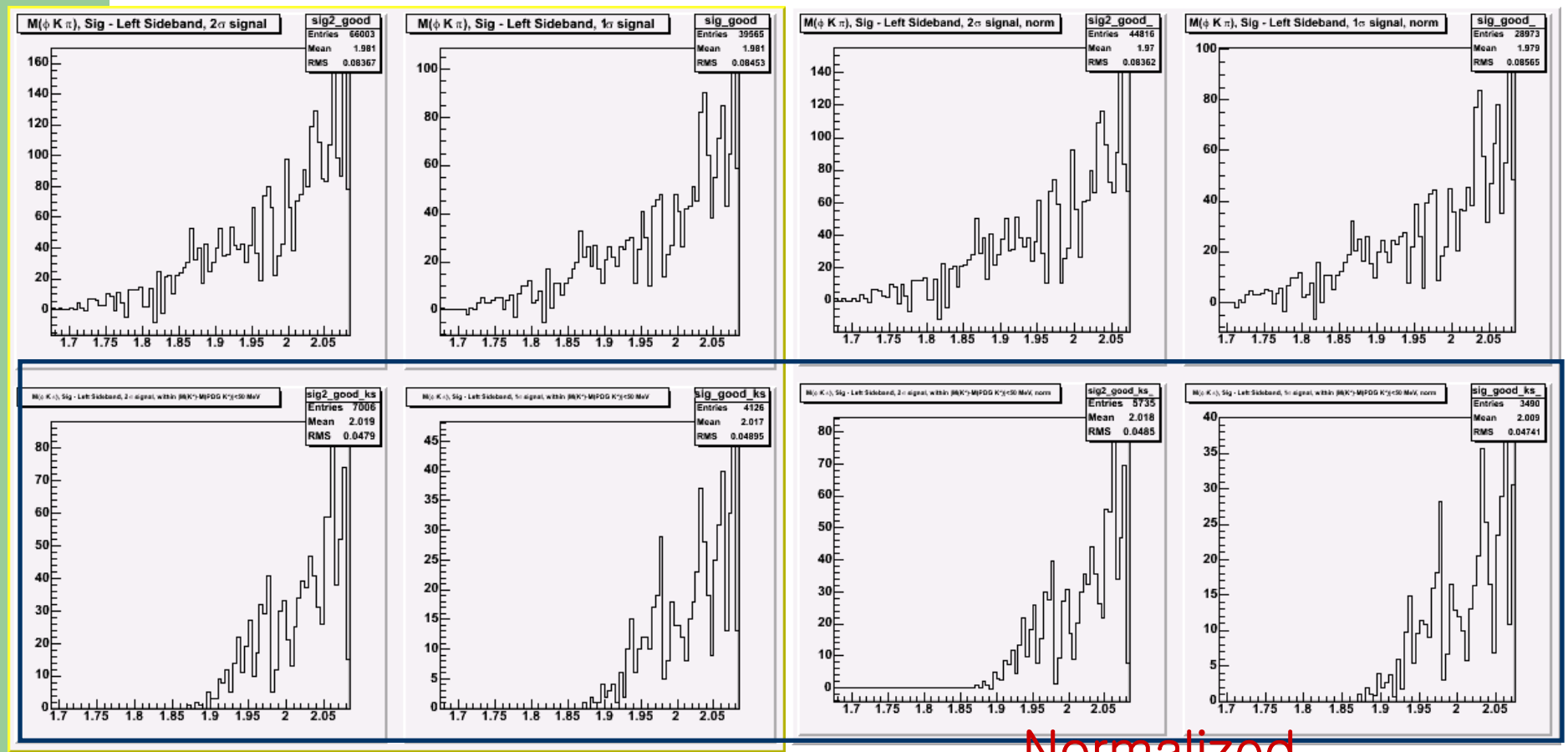
Clean cut

One cand only



Phi K Pi (|M(K*)−M(PDG K*)|< 50 MeV)

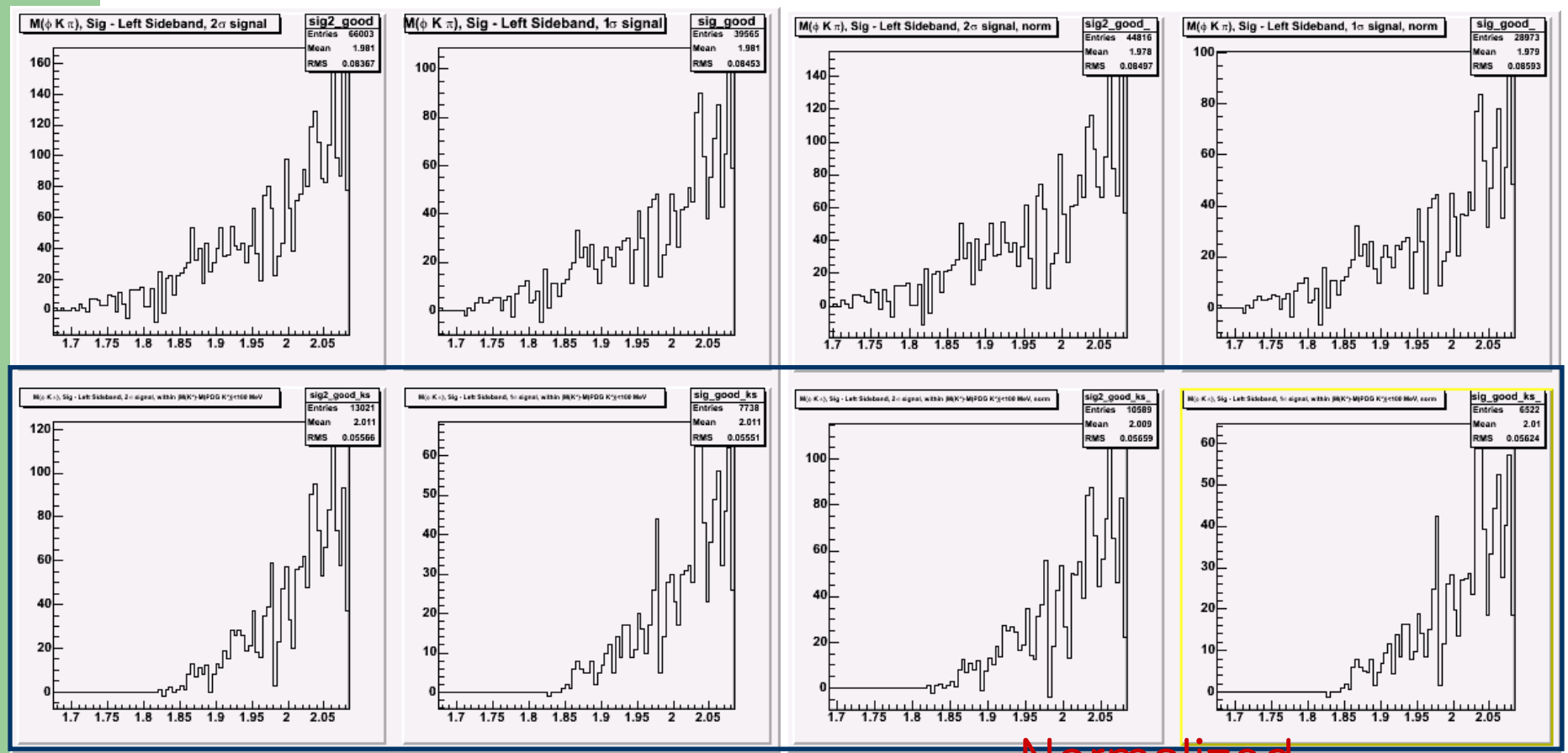
2sigma sig. 1sigma sig.



Normalized

Phi K Pi (|M(K*)−M(PDG K*)|< 100 MeV)

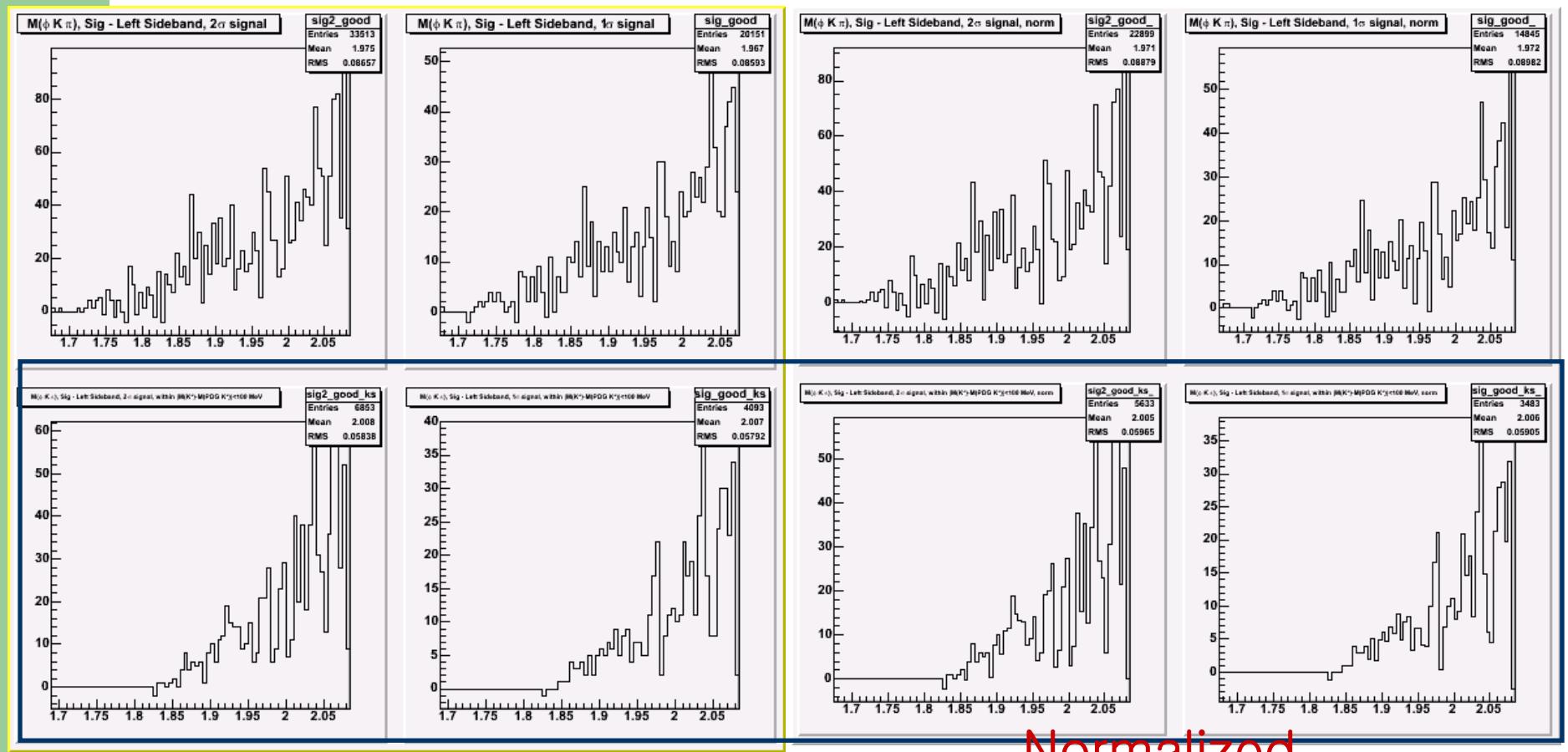
2sigma sig. 1sigma sig.



Normalized

Phi K Pi (Kaon_KLike>Pion_KLike only)

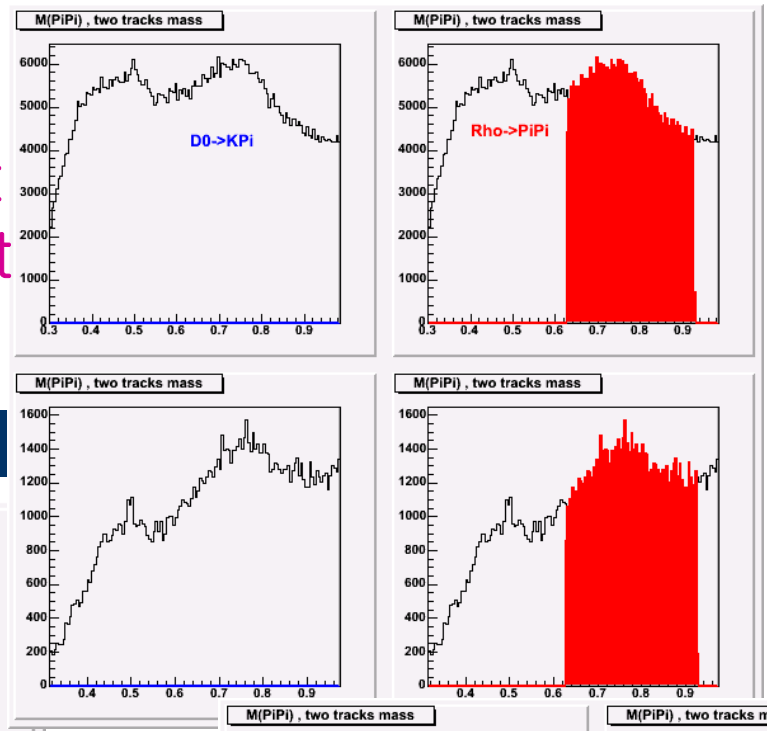
2sigma sig. 1sigma sig.

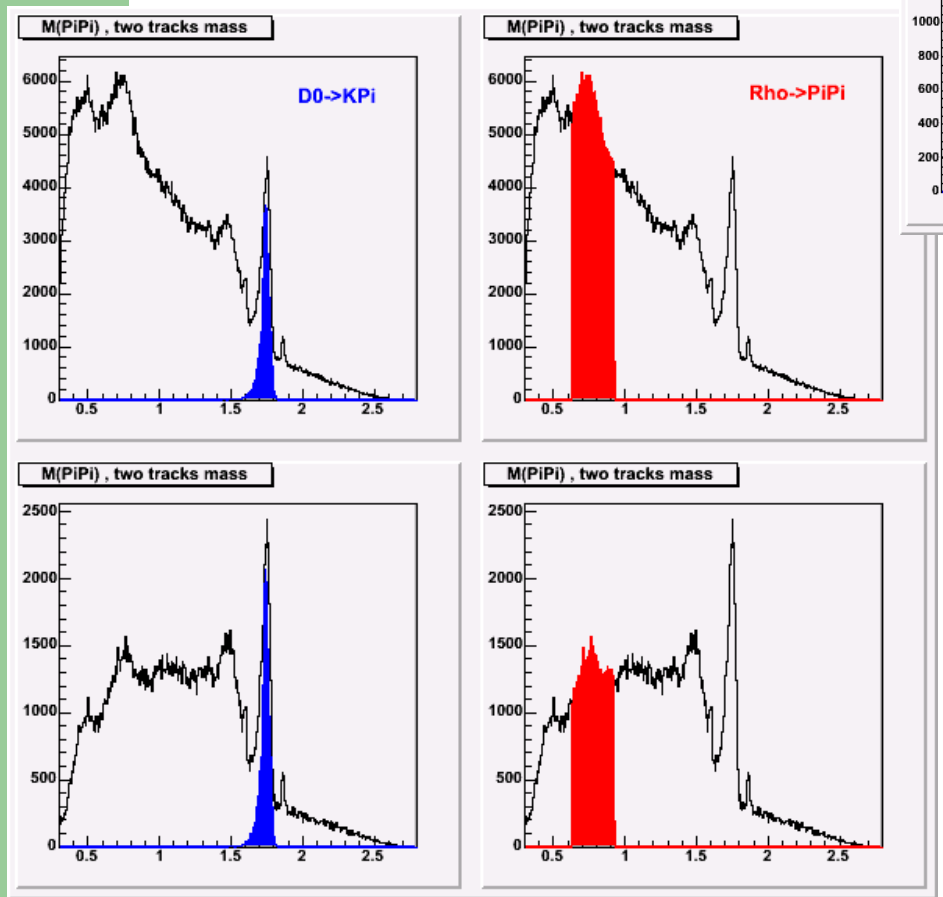


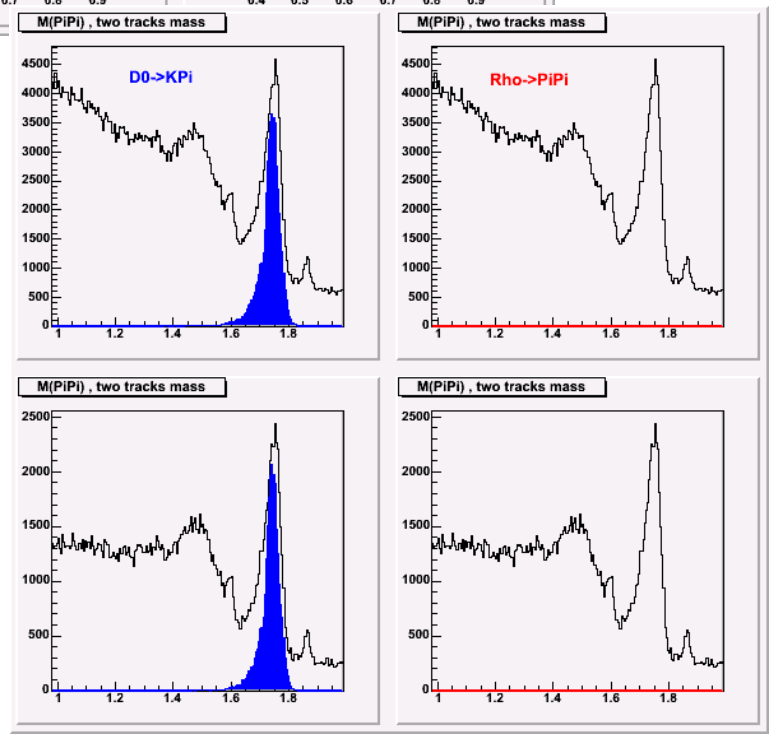
Normalized

Pi Pi

No clean cut
Vs. clean cut

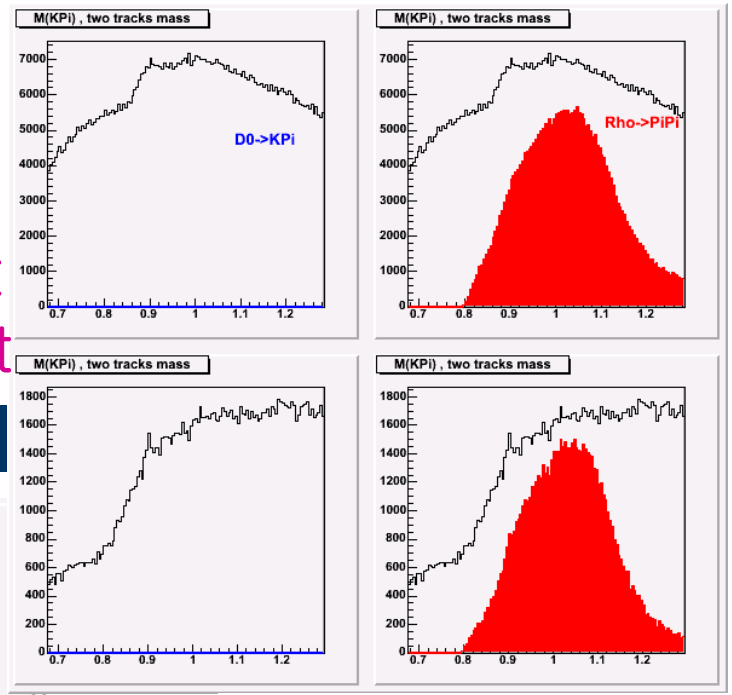


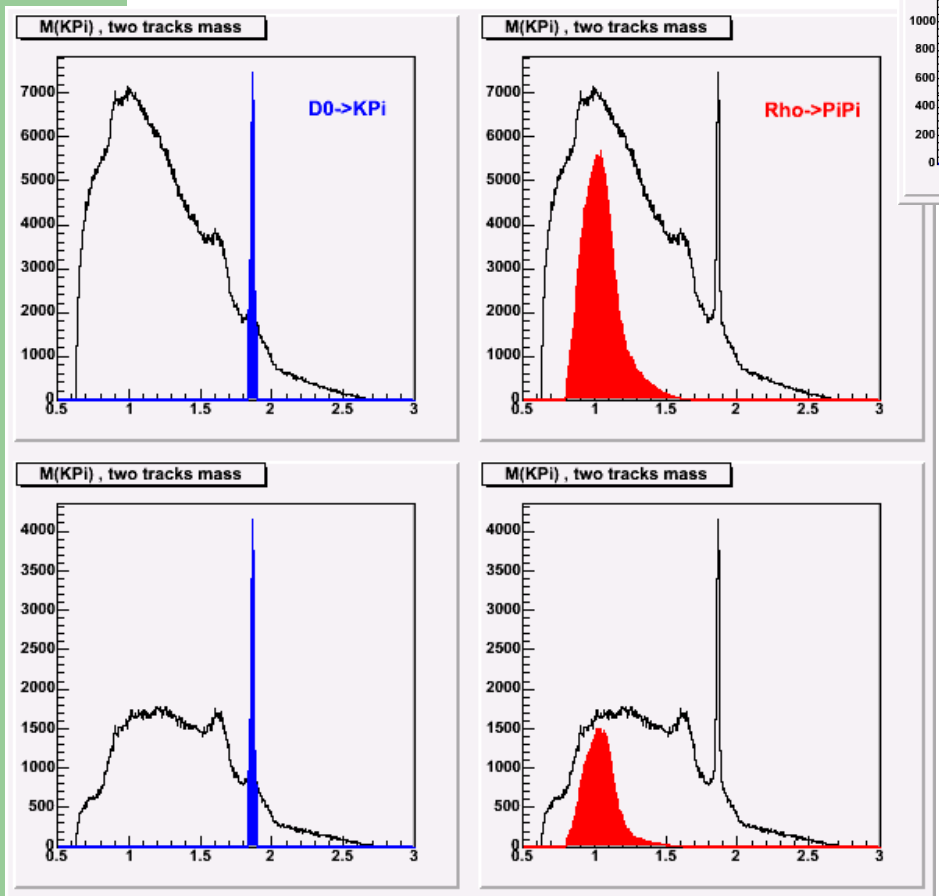


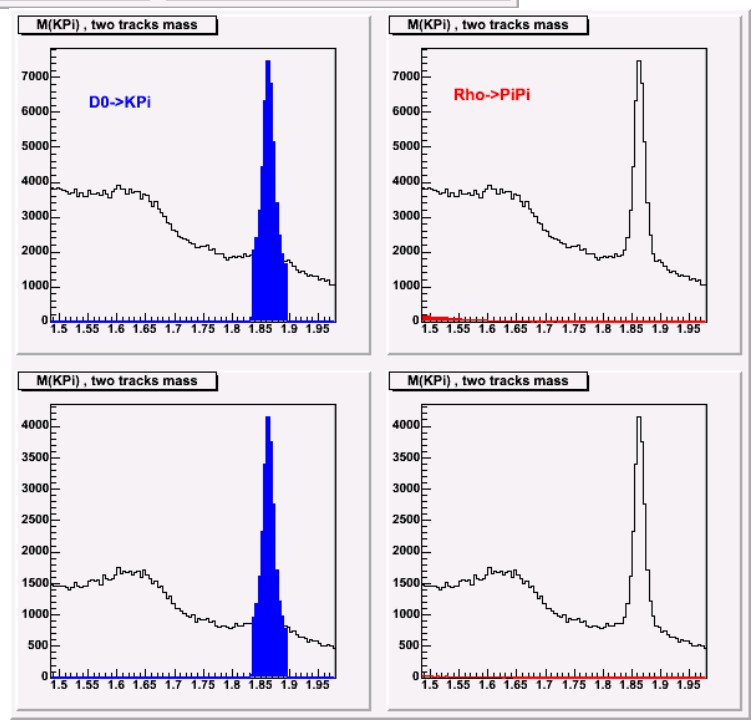


K Pi

No clean cut
Vs. clean cut

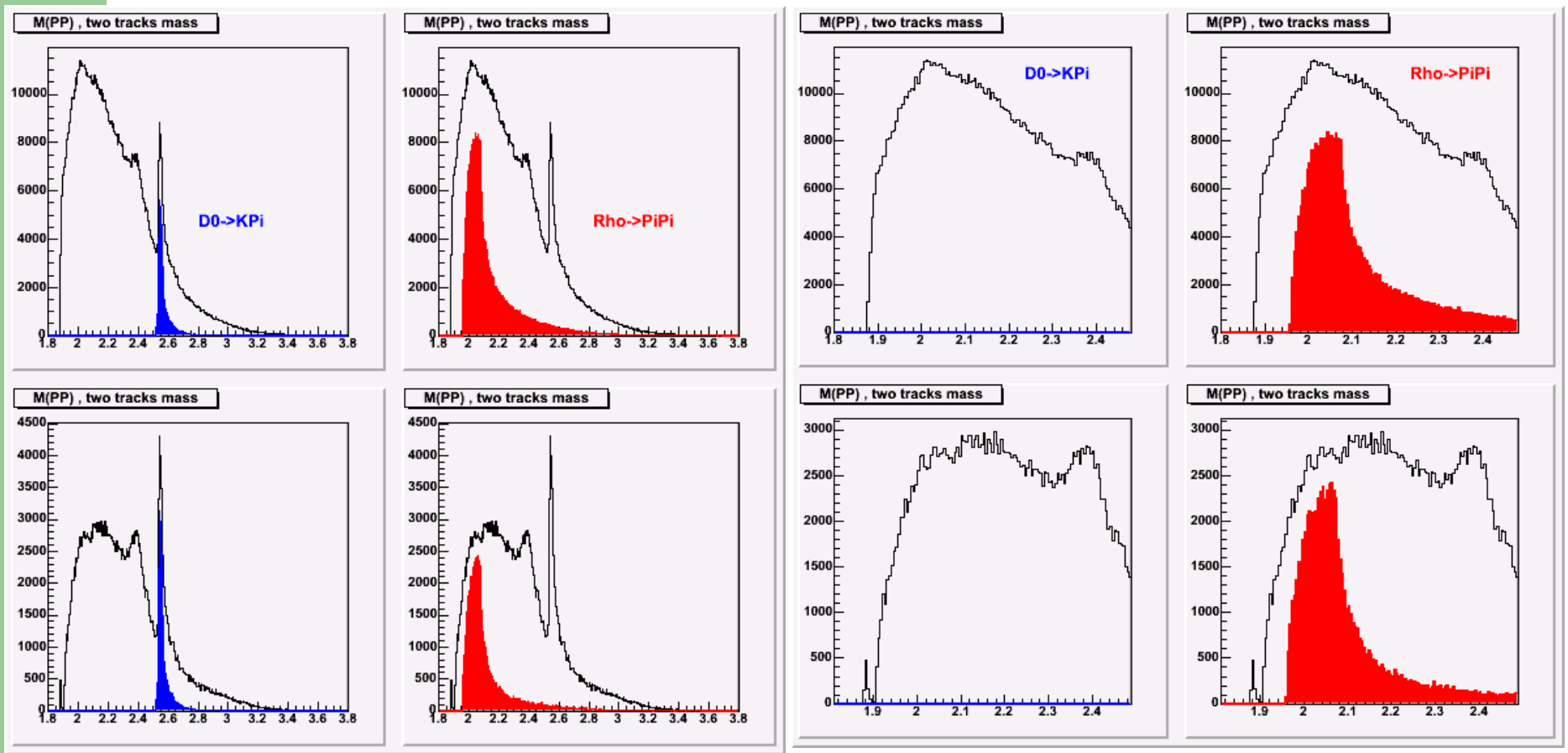






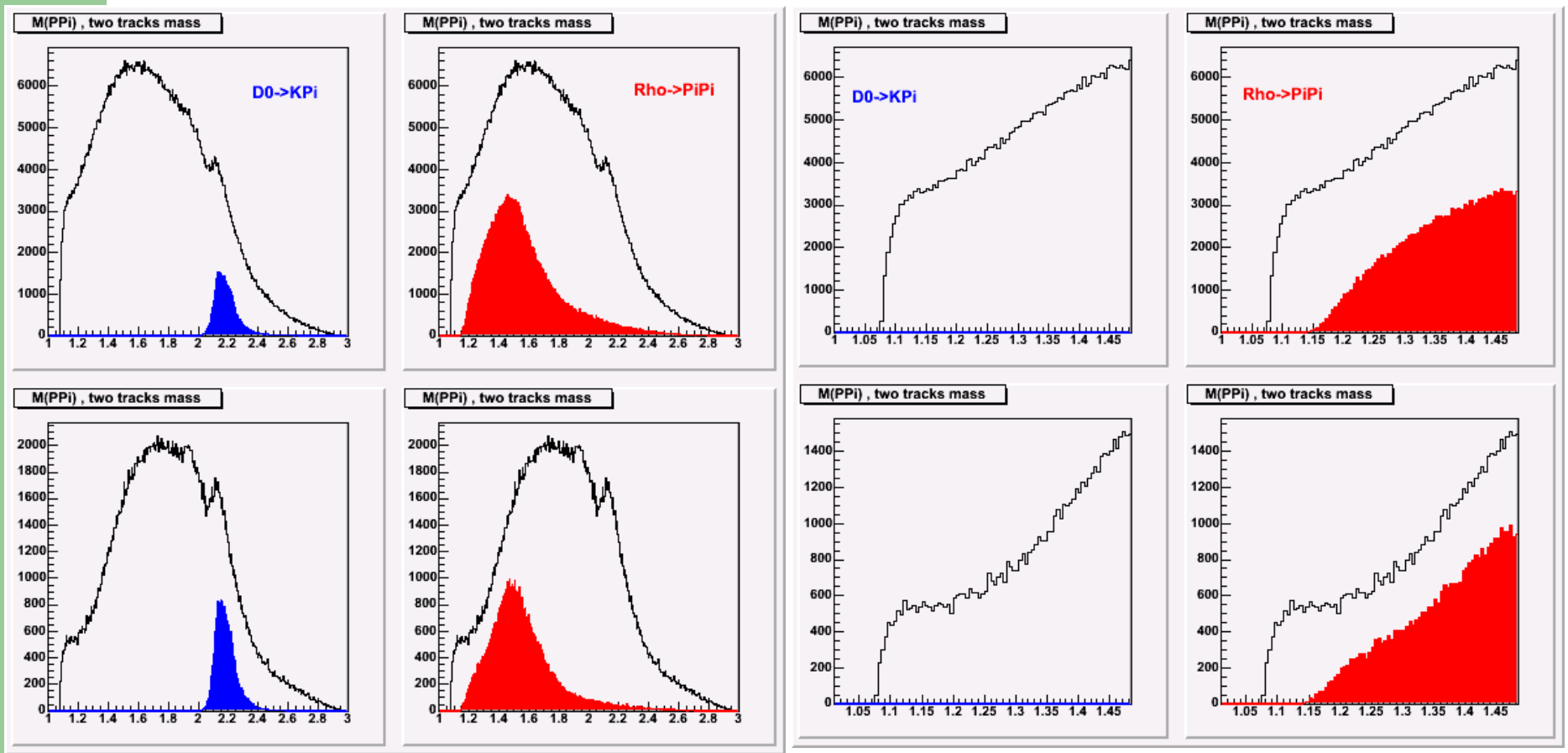
P P

No clean cut
Vs. clean cut



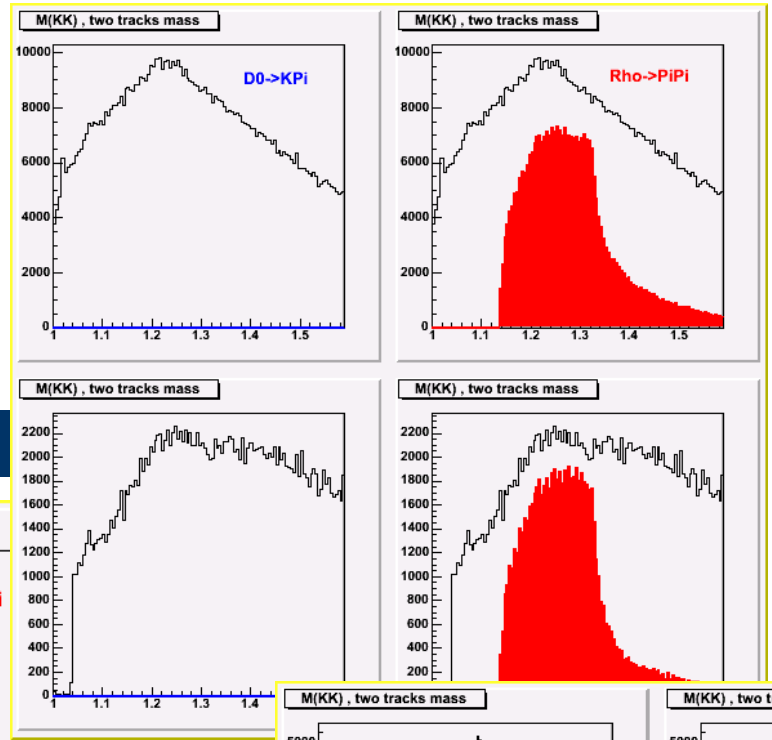
P Pi

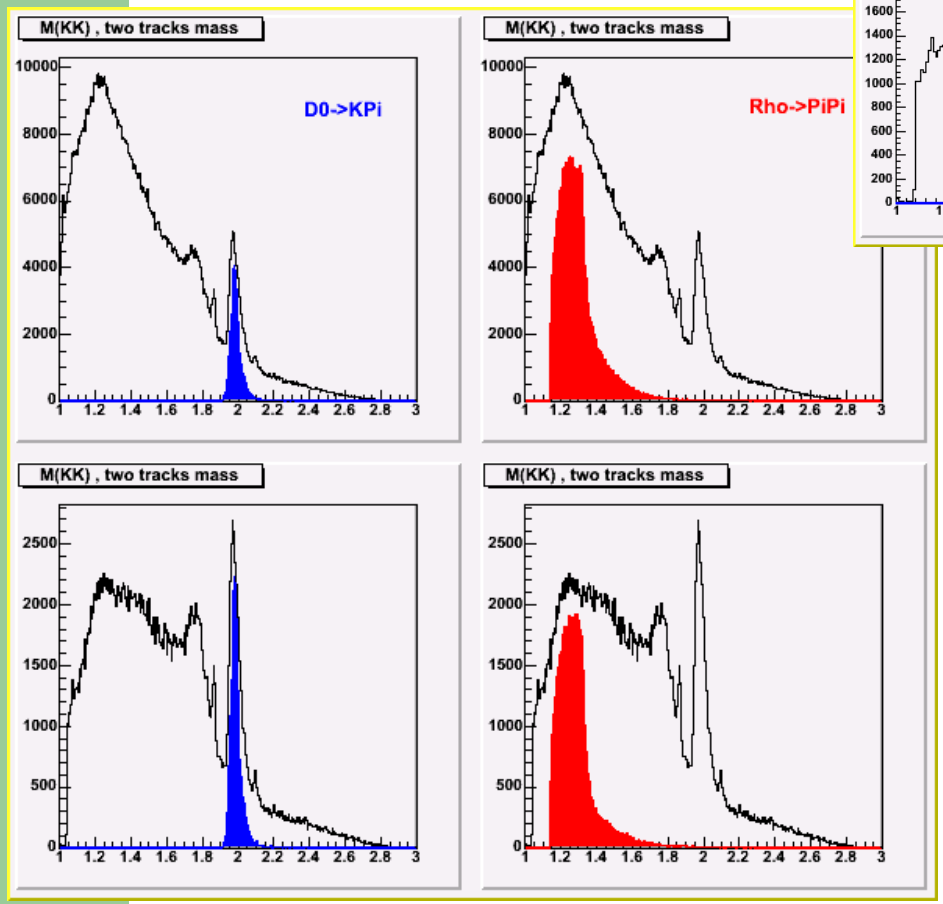
No clean cut
Vs. clean cut

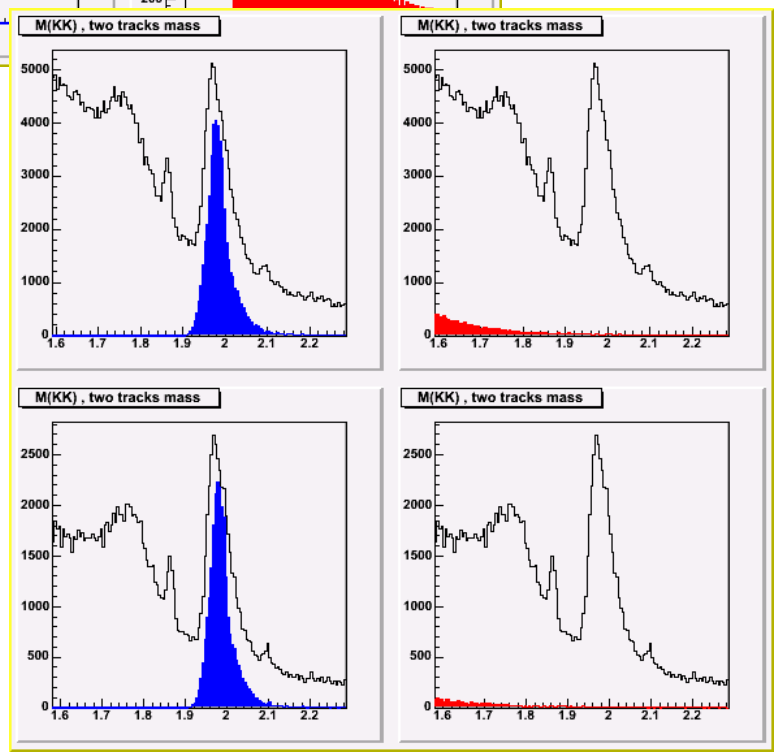


K K

No clean cut
Vs. clean cut

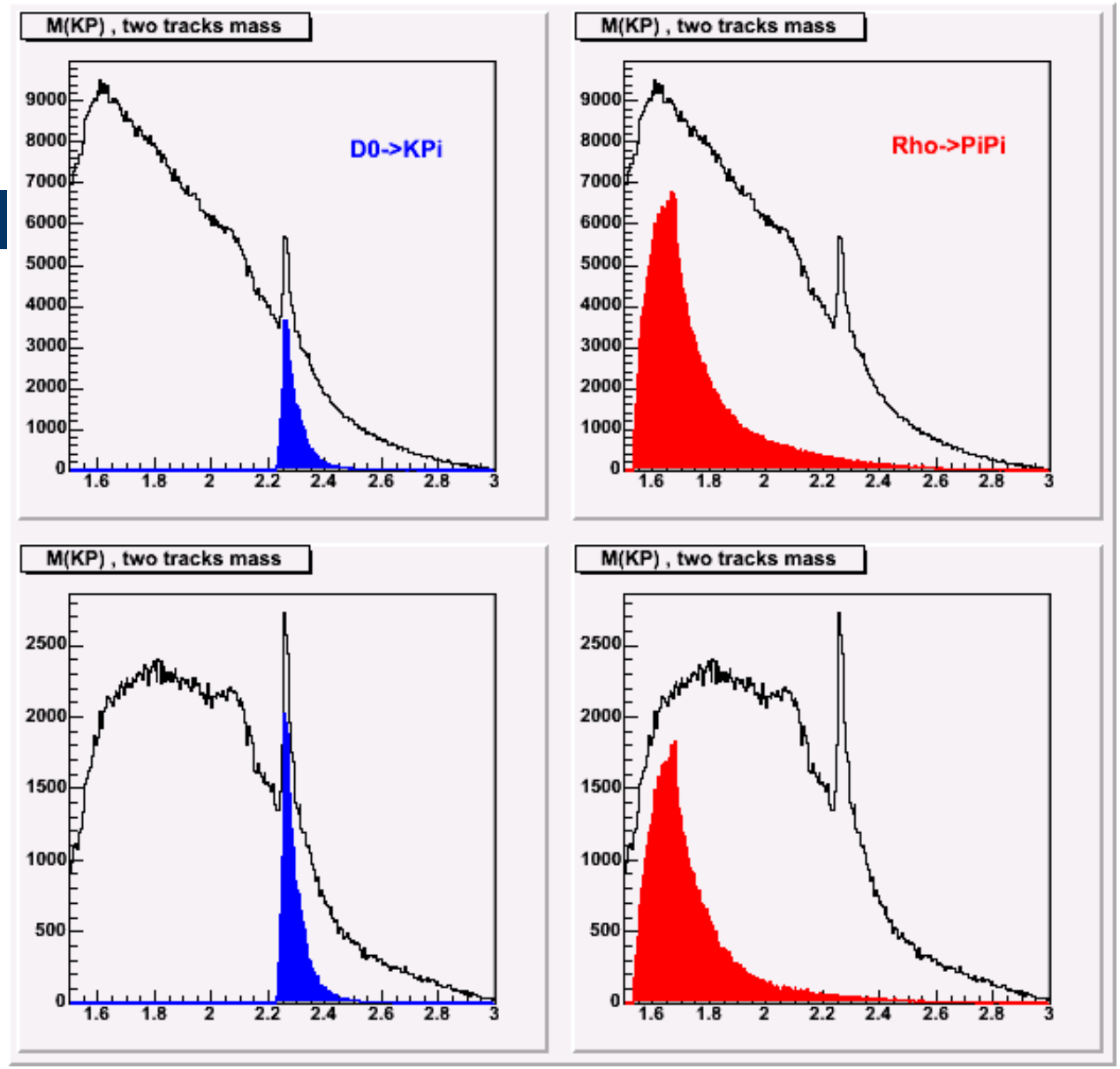






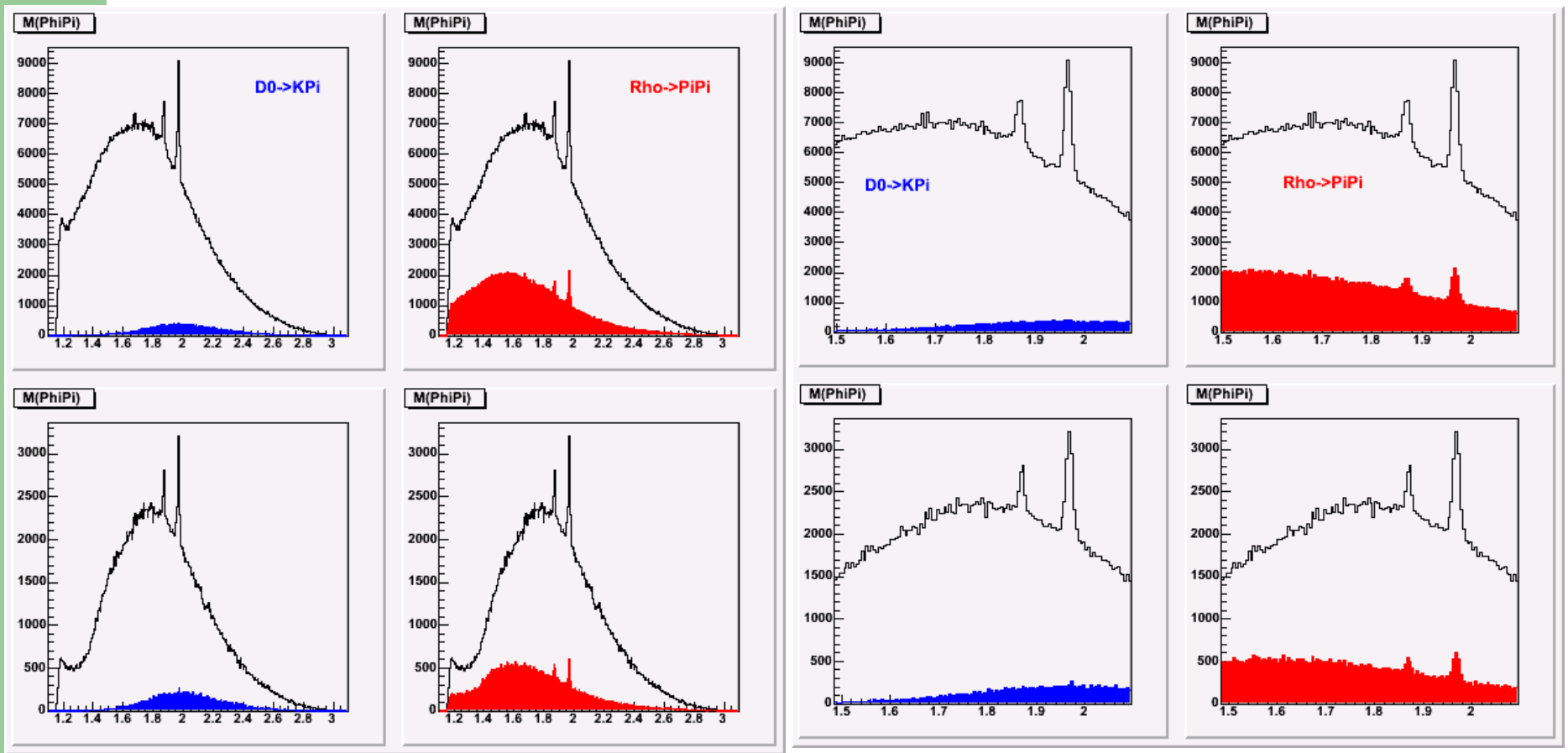
K P

No clean cut
Vs. clean cut



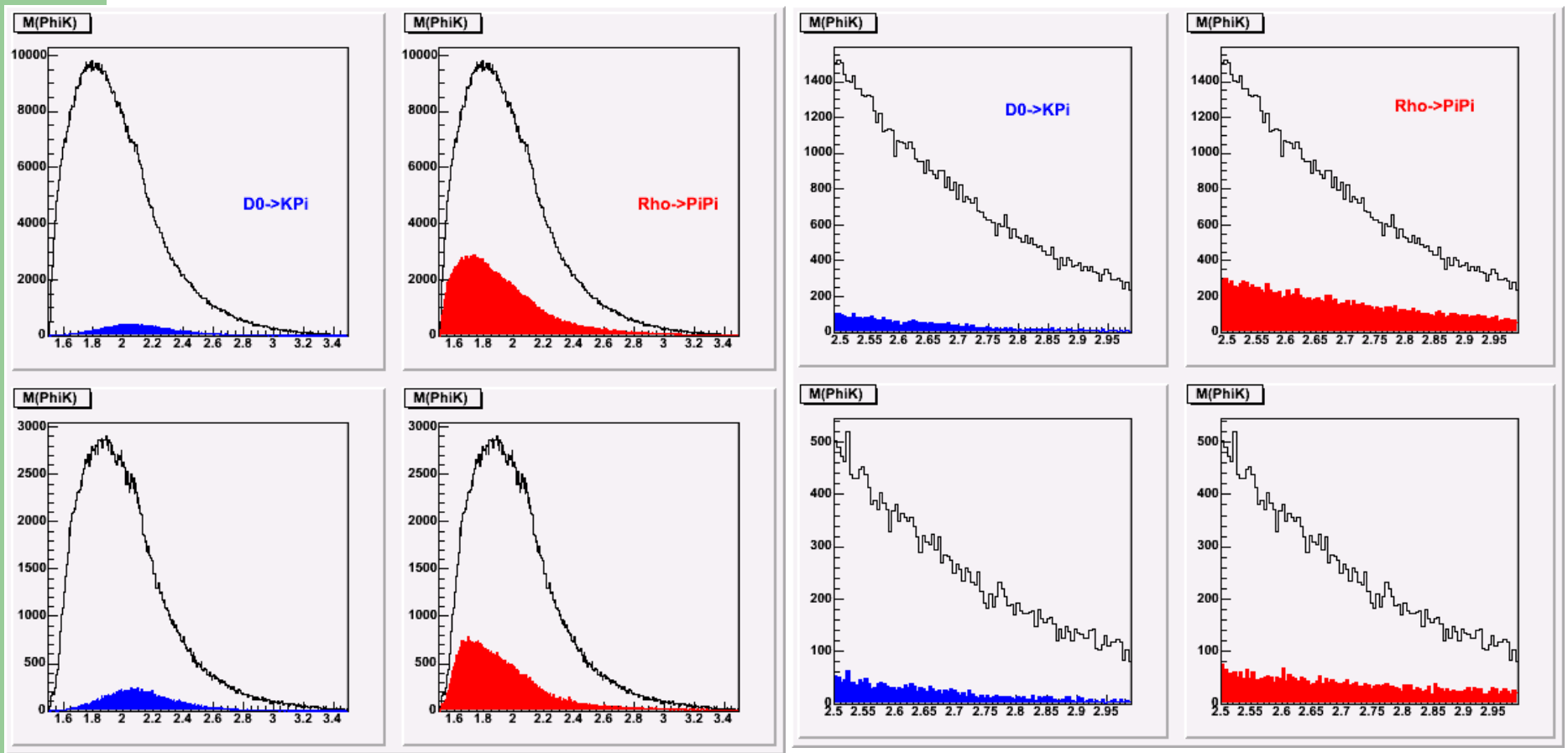
Phi Pi

No clean cut
Vs. clean cut



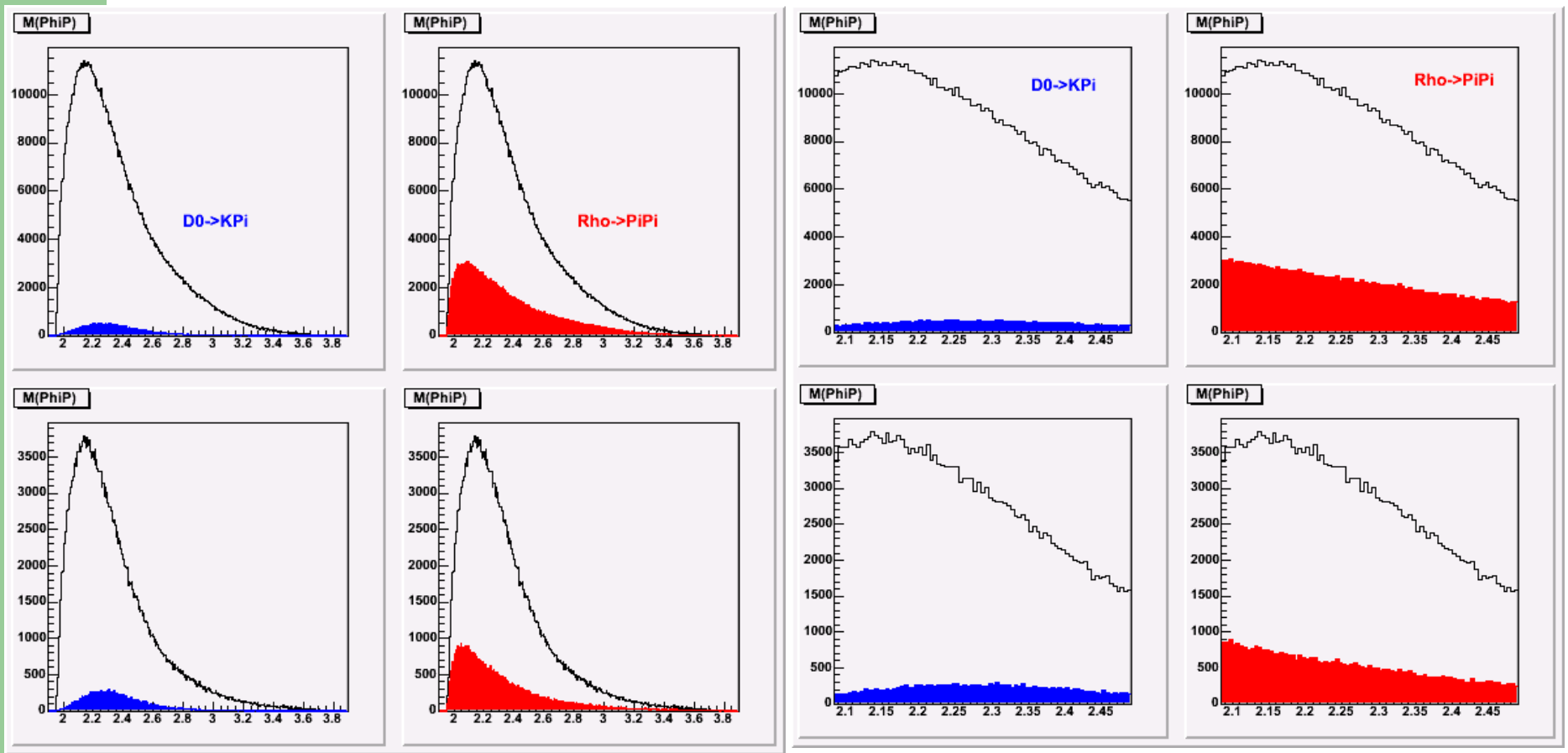
Phi K

No clean cut
Vs. clean cut



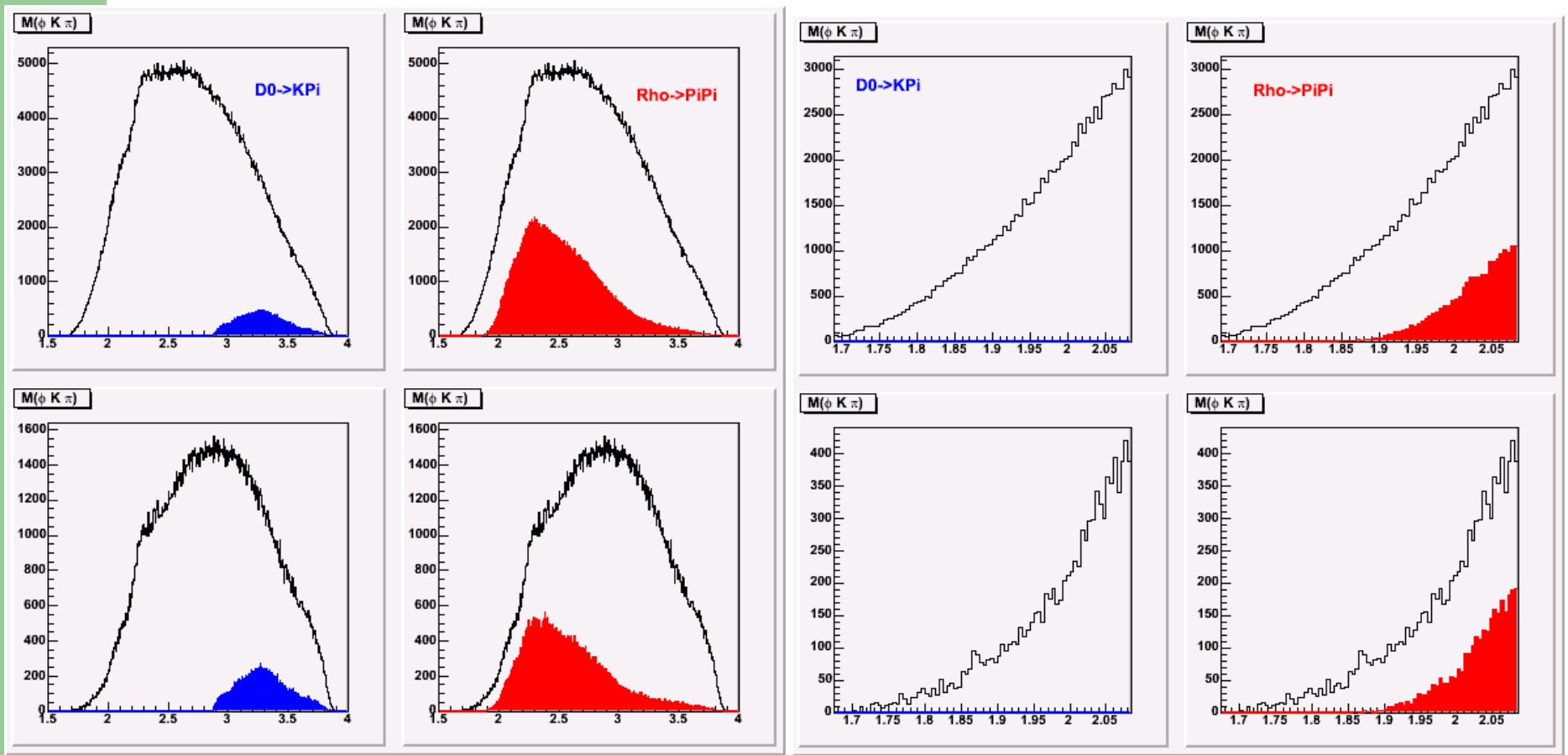
Phi P

No clean cut
Vs. clean cut



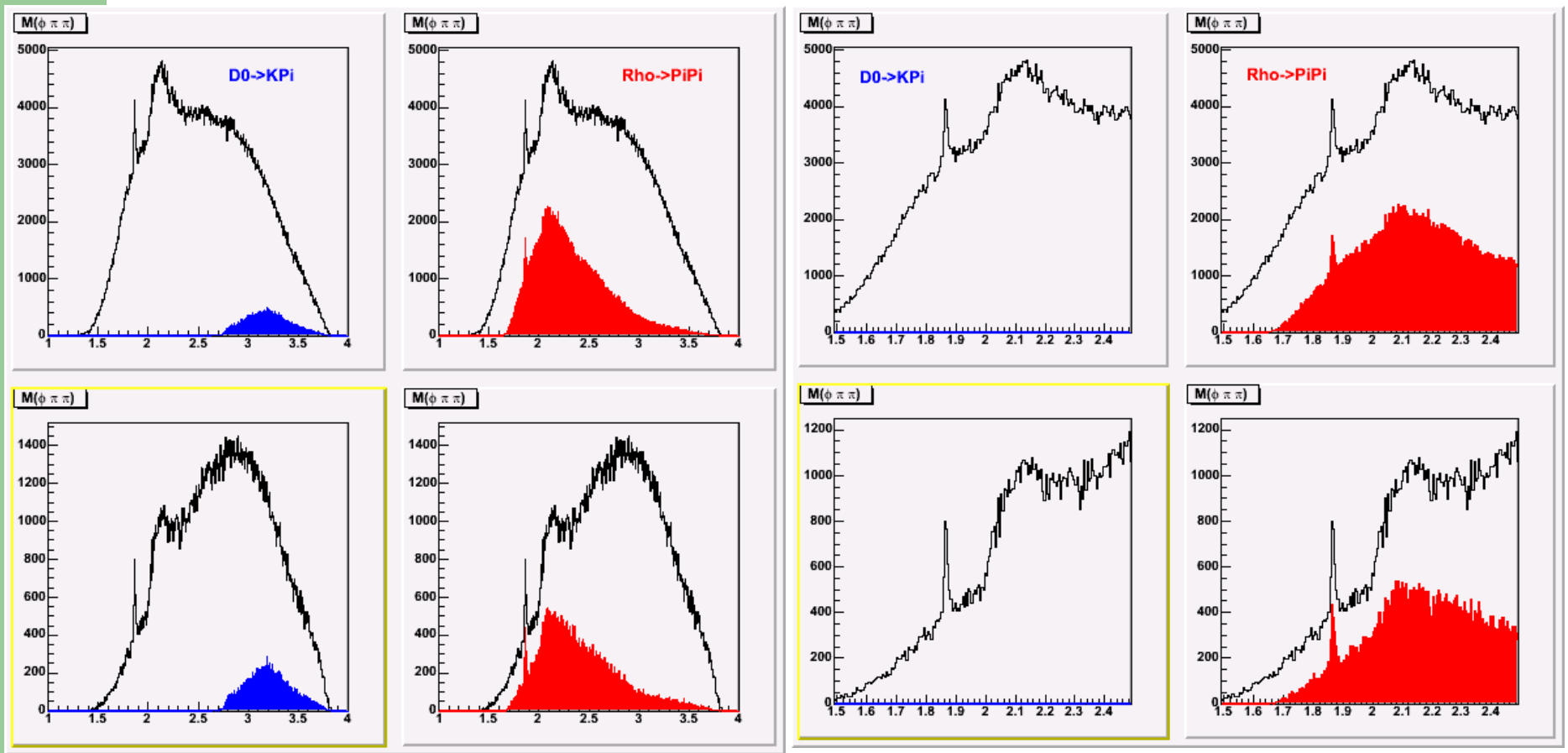
Phi K Pi

No clean cut
Vs. clean cut



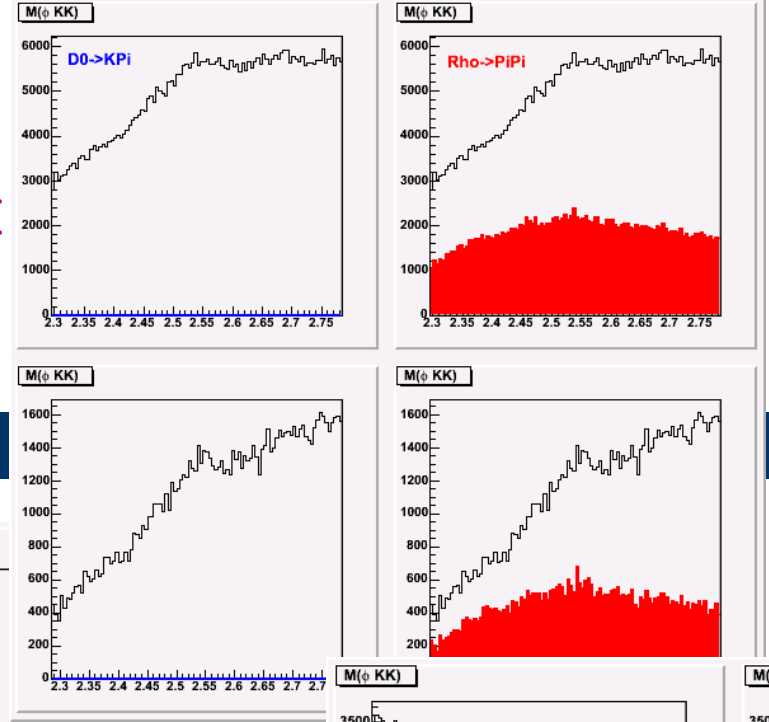
Phi Pi Pi

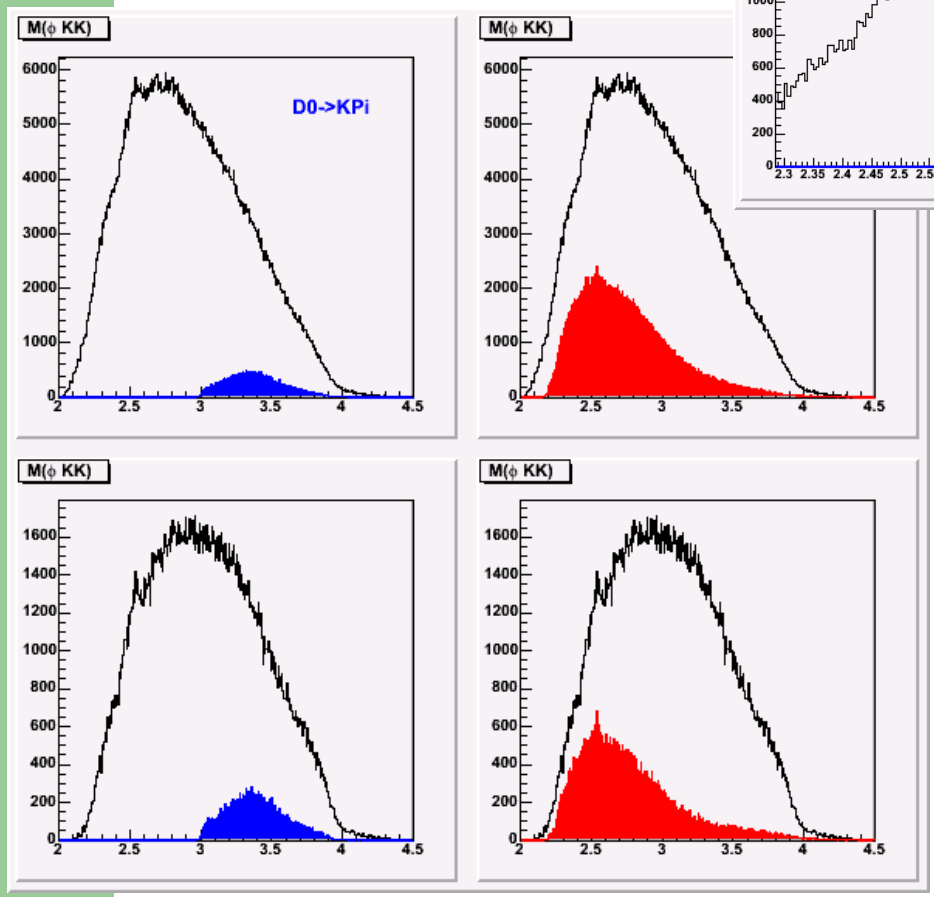
No clean cut
Vs. clean cut

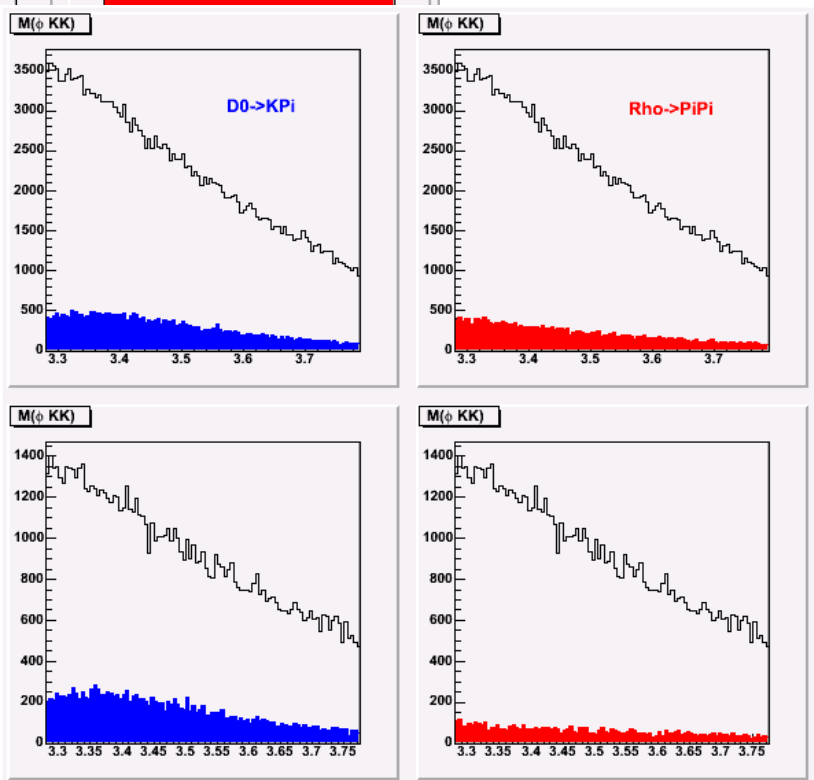


No clean cut
Vs. clean cut

Phi K K

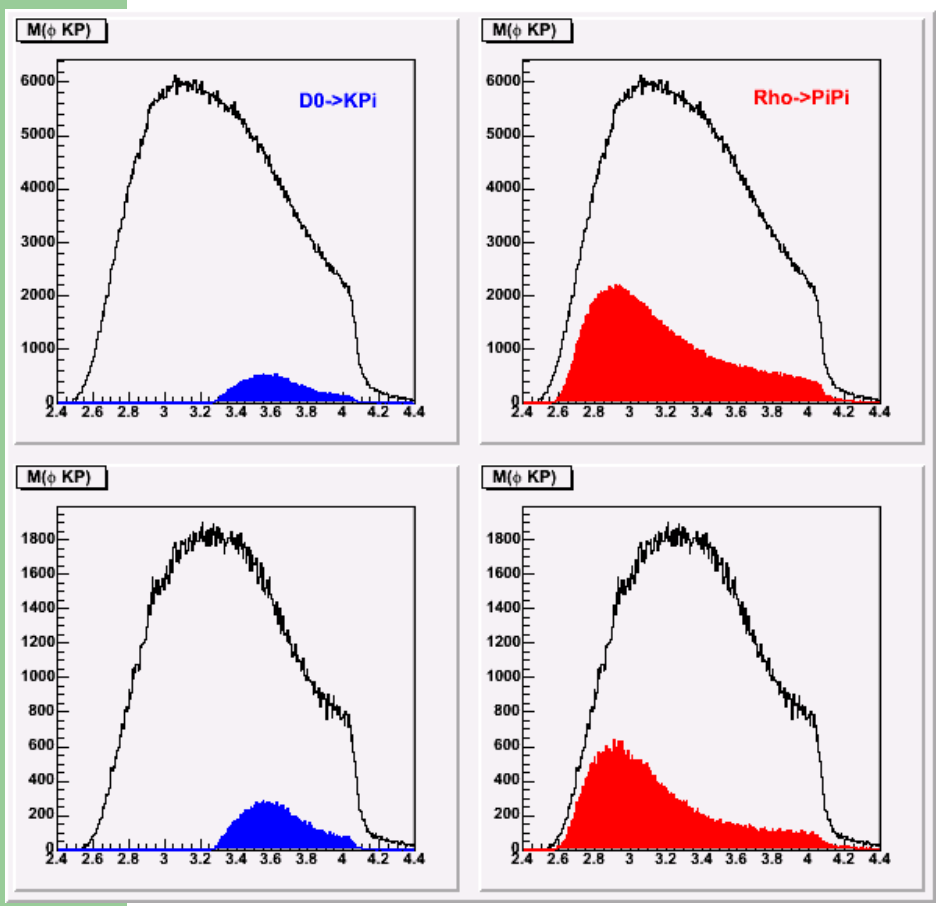


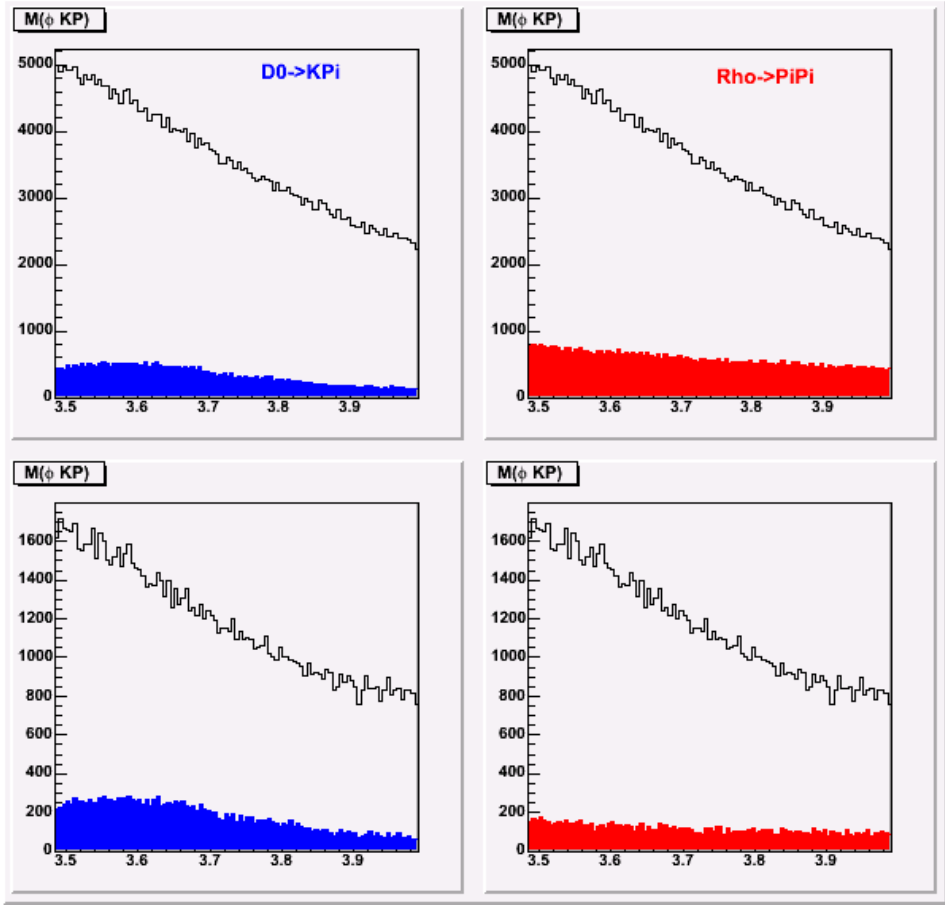




Phi K P

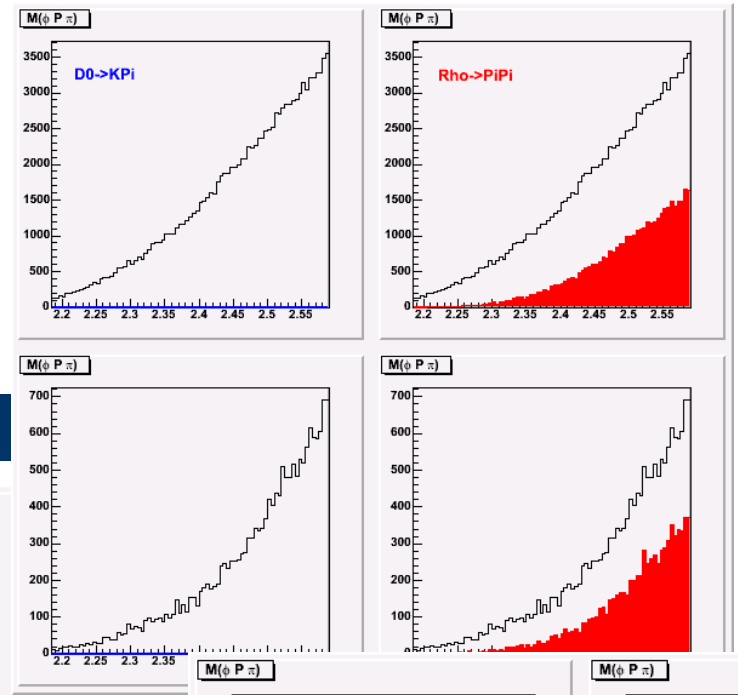
No clean cut
Vs. clean cut

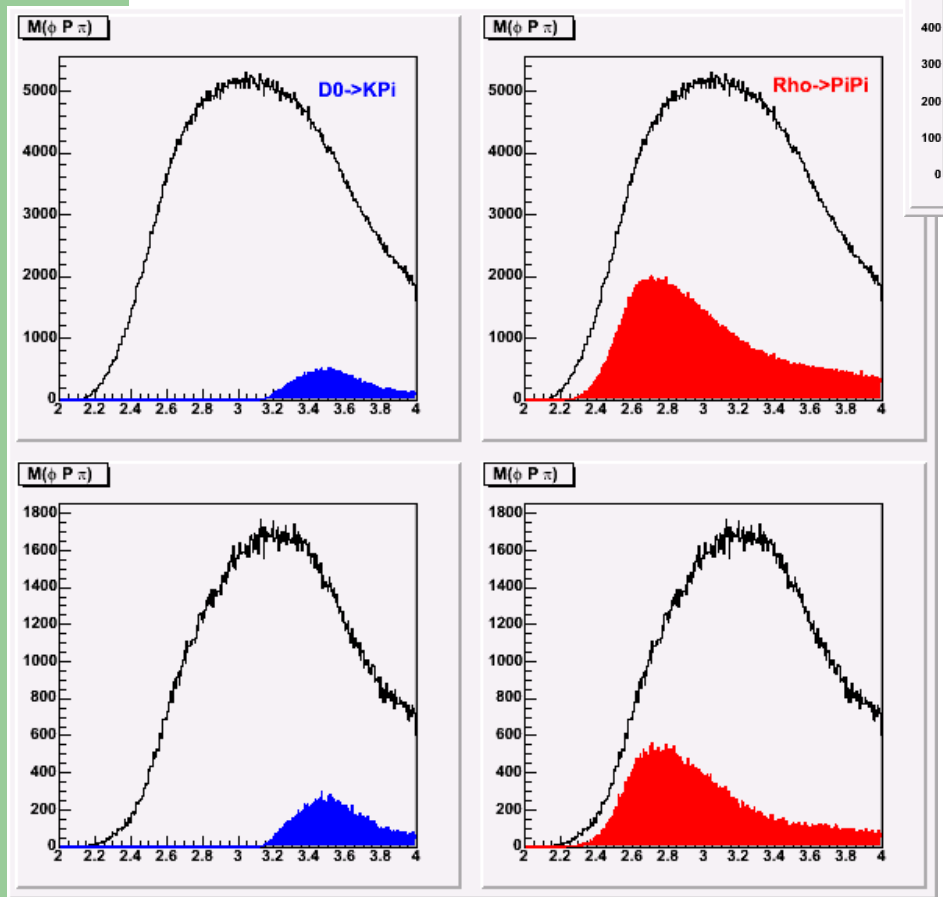


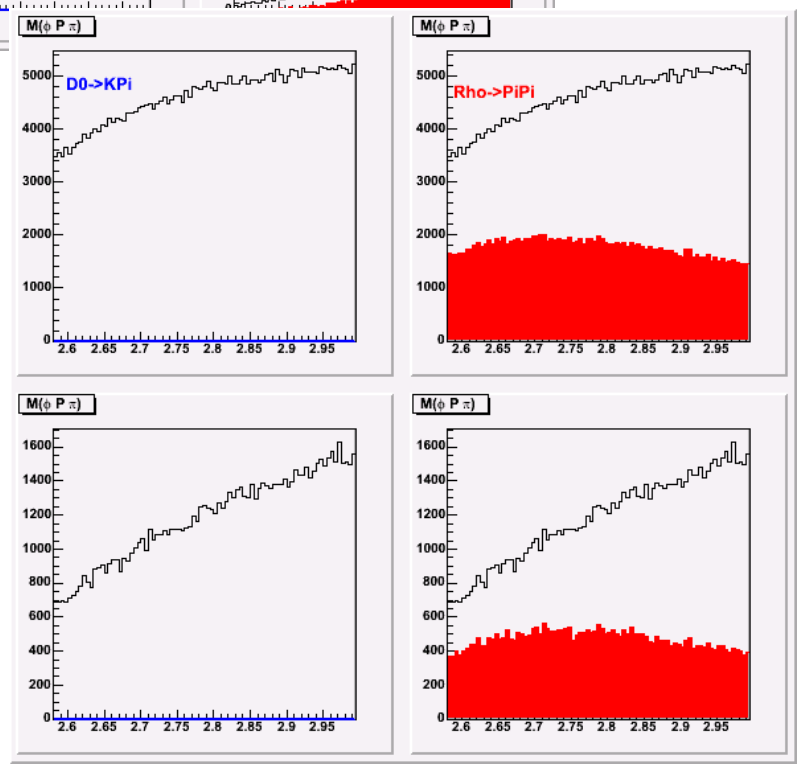


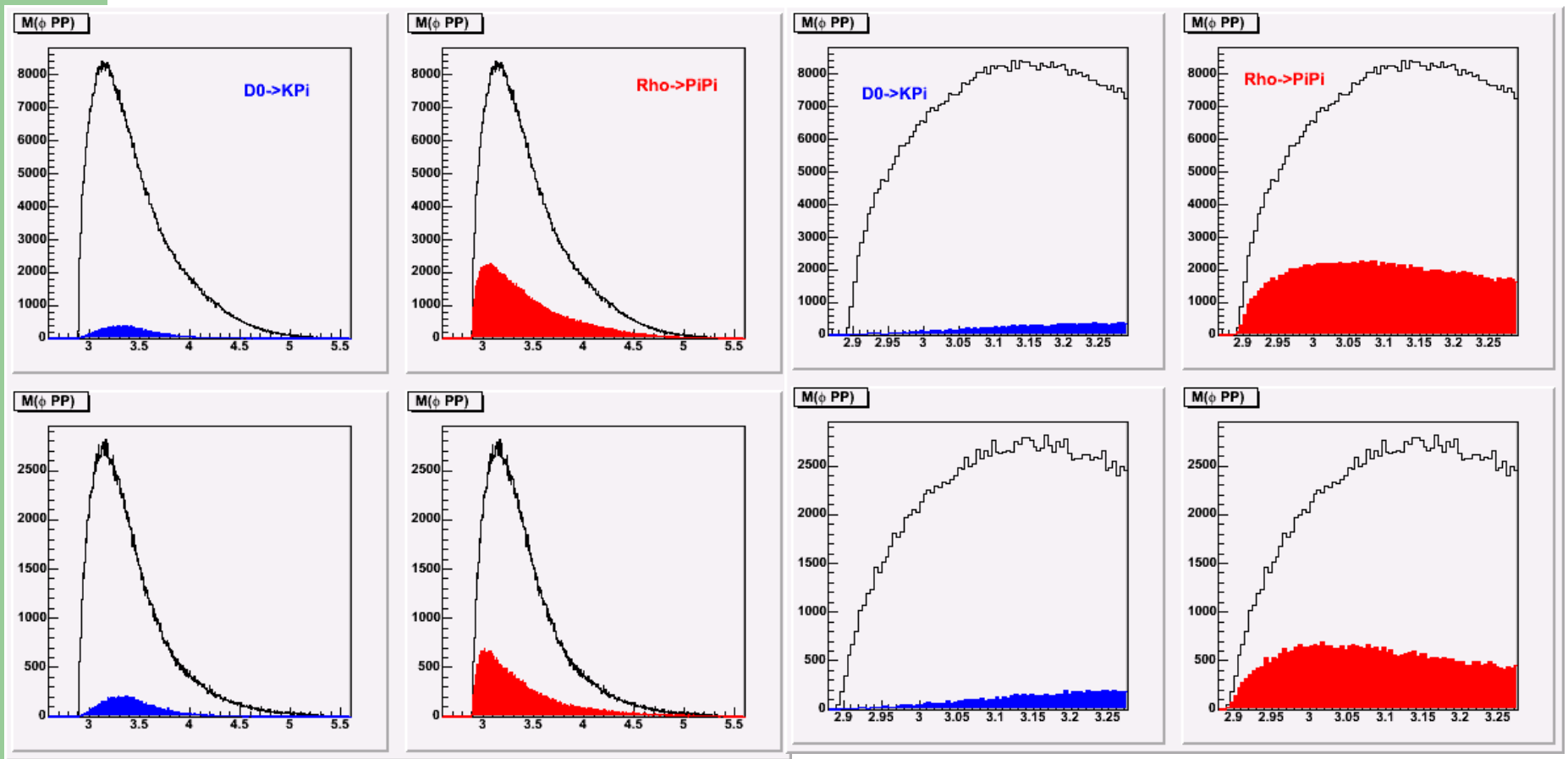
No clean cut
Vs. clean cut

Phi P Pi







Phi P P

No clean cut
Vs. clean cut