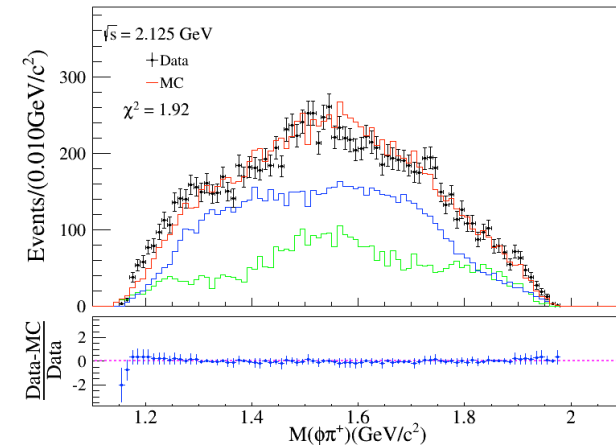
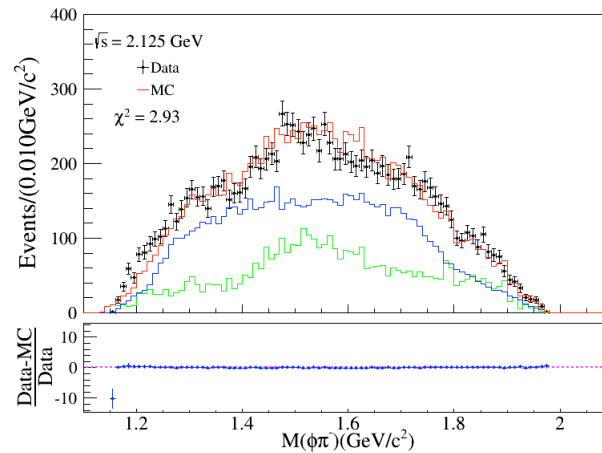
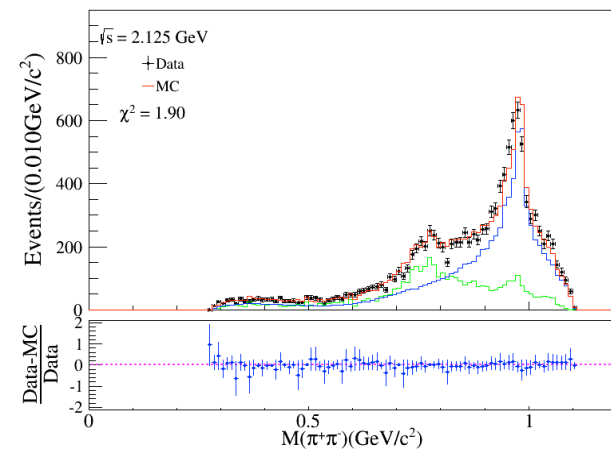
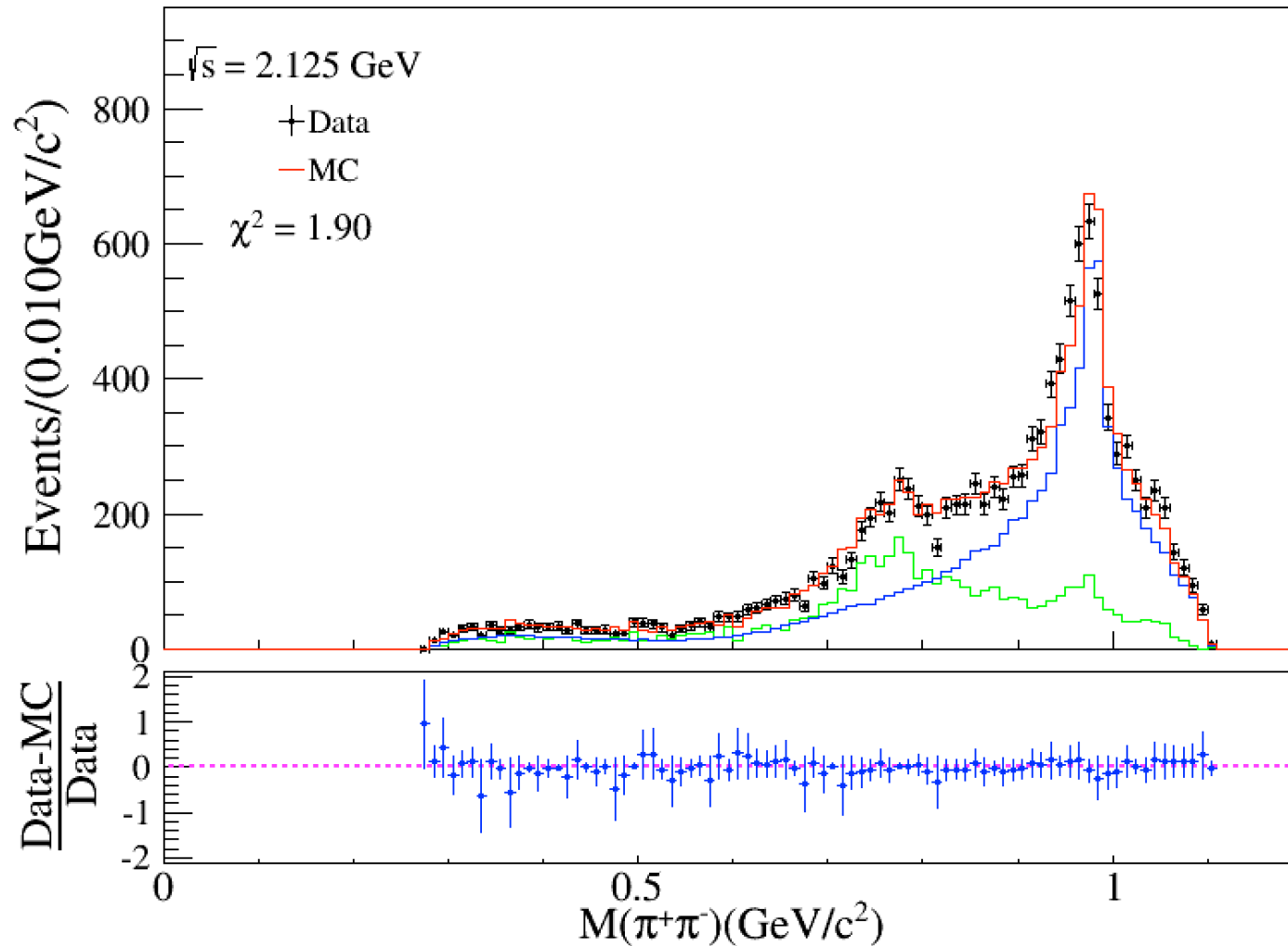


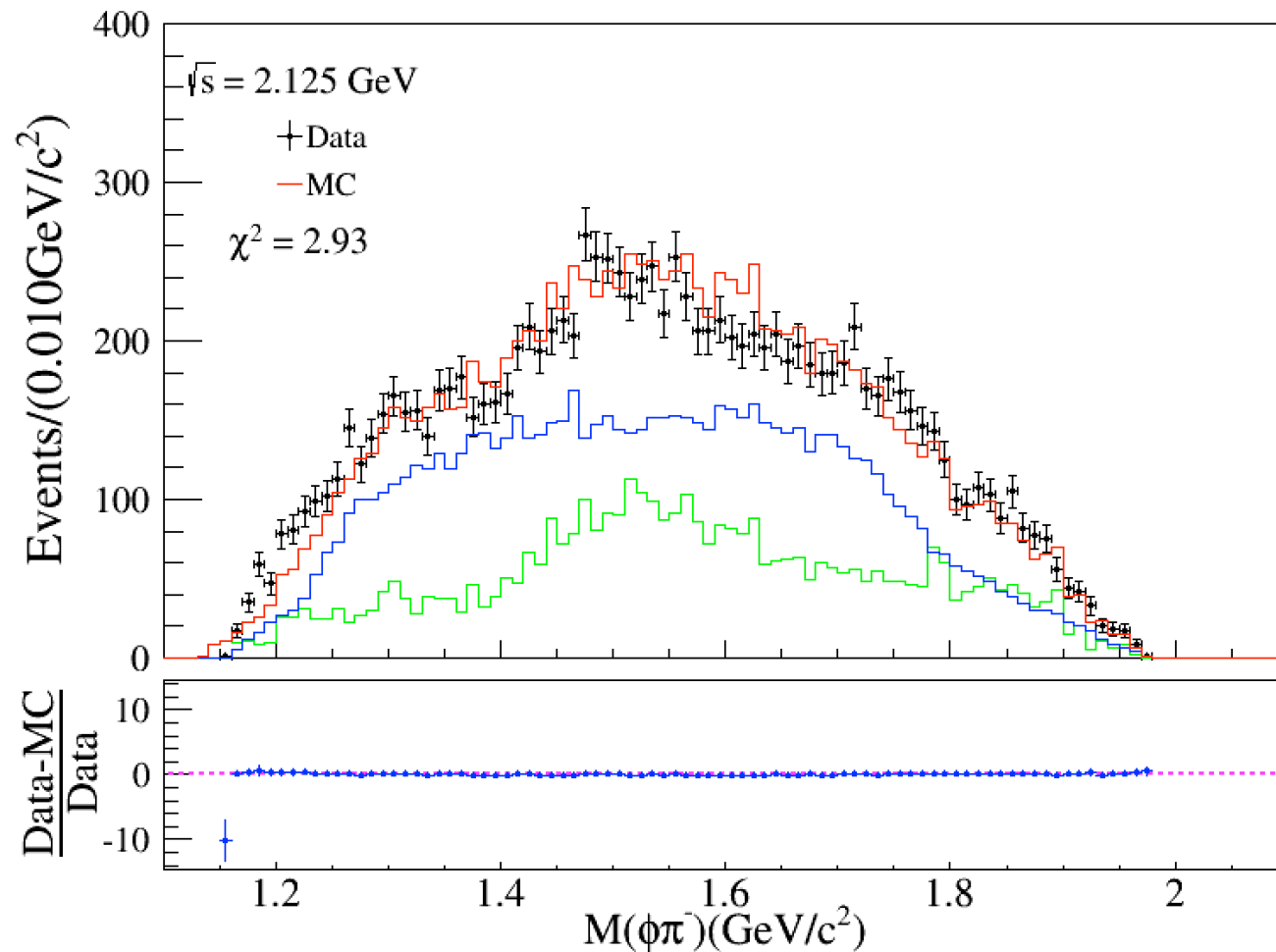
Invariant mass distributions



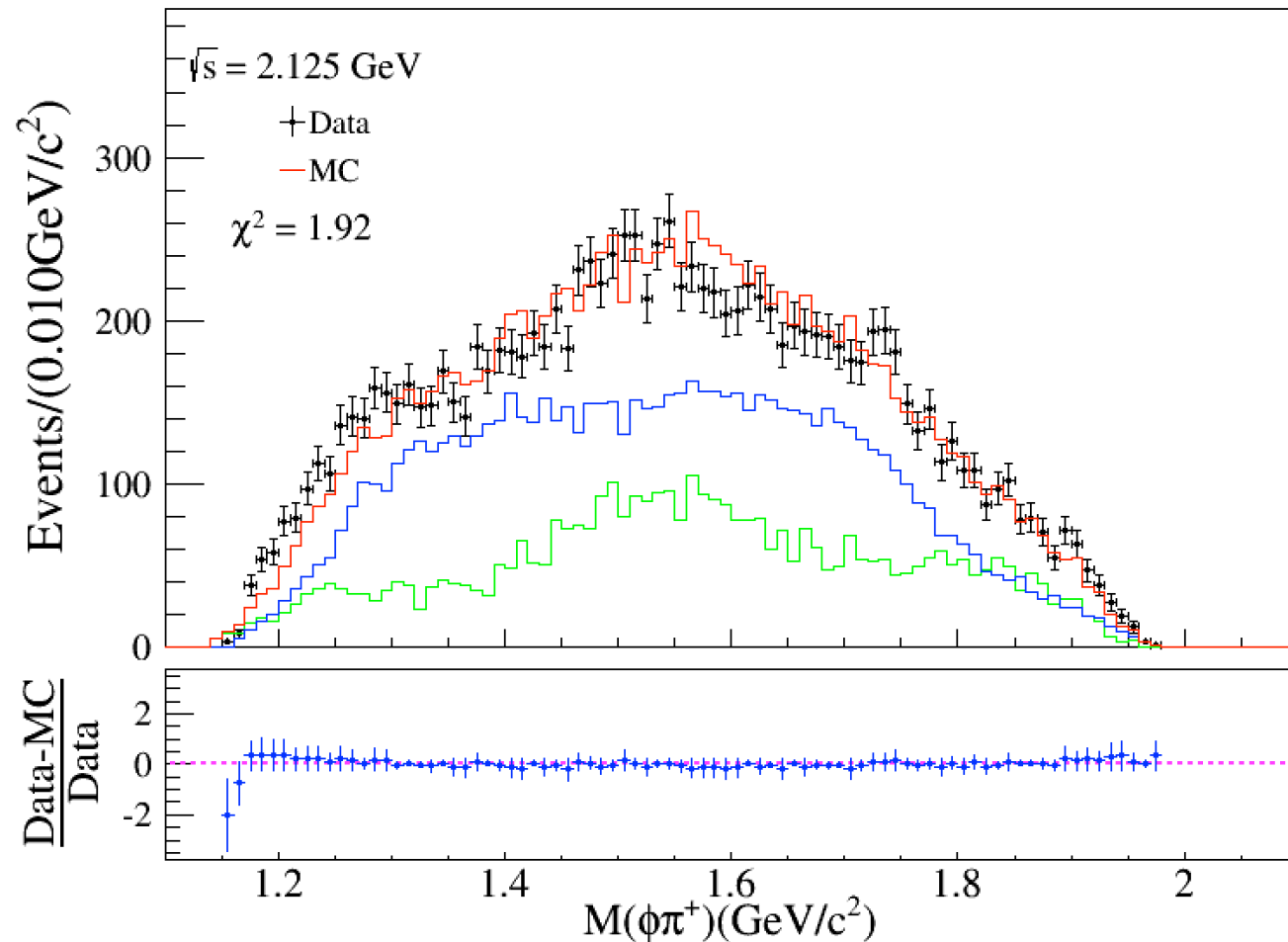
Invariant mass distributions



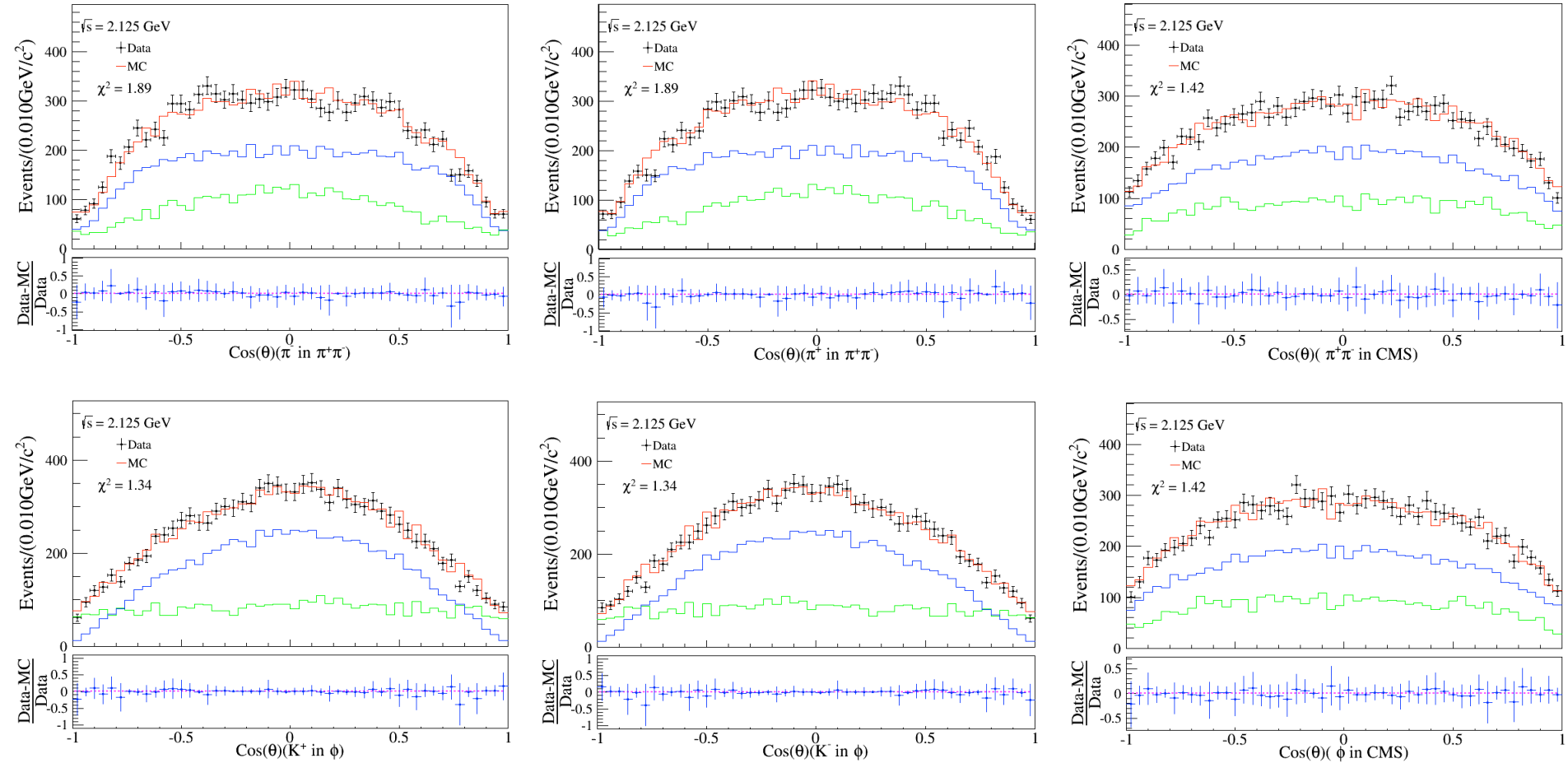
Invariant mass distributions



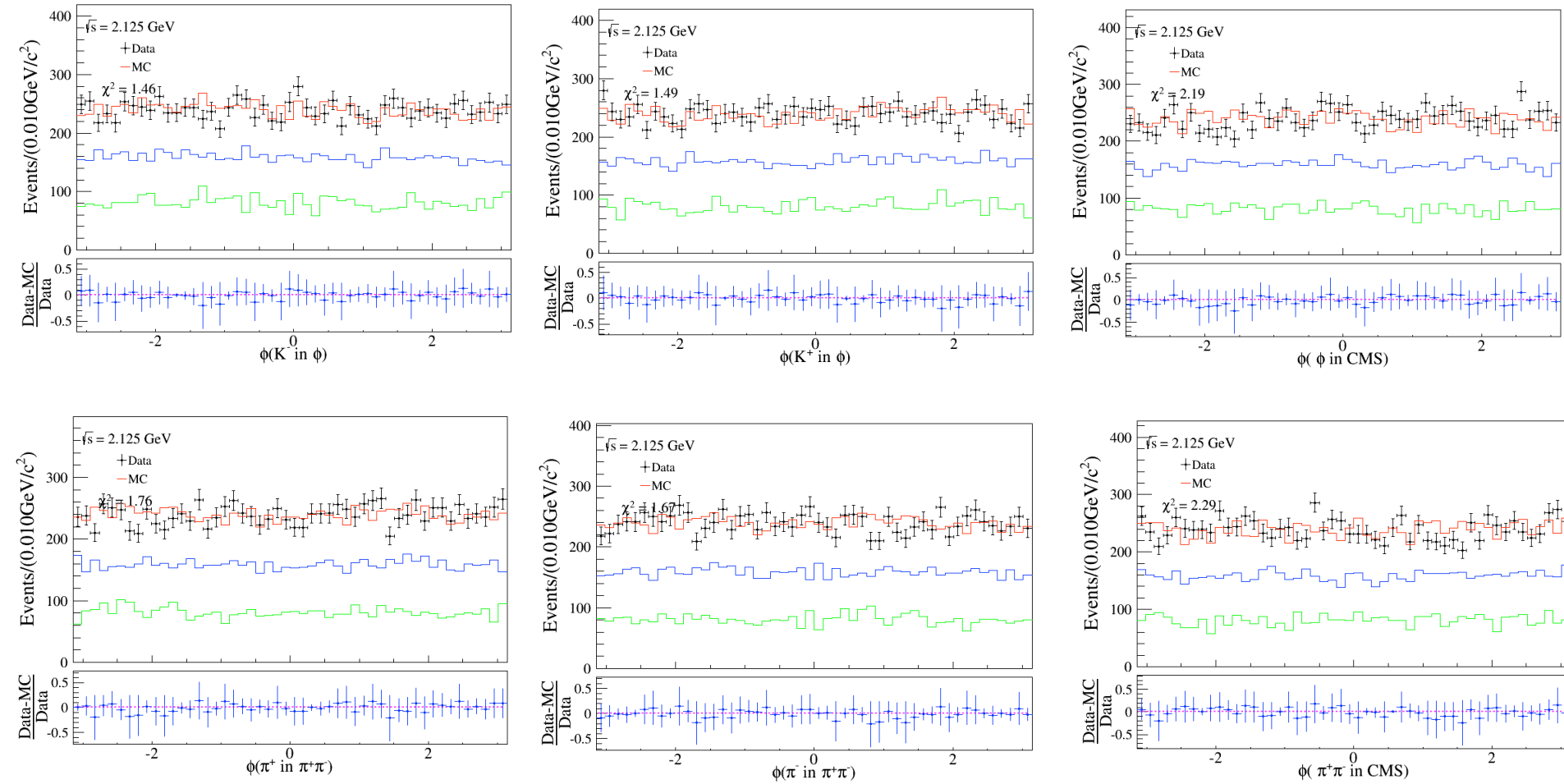
Invariant mass distributions



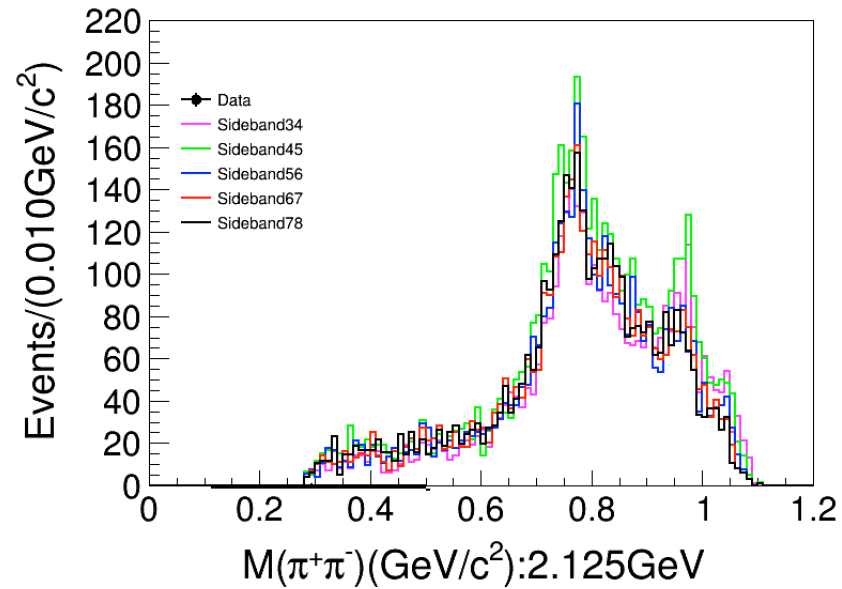
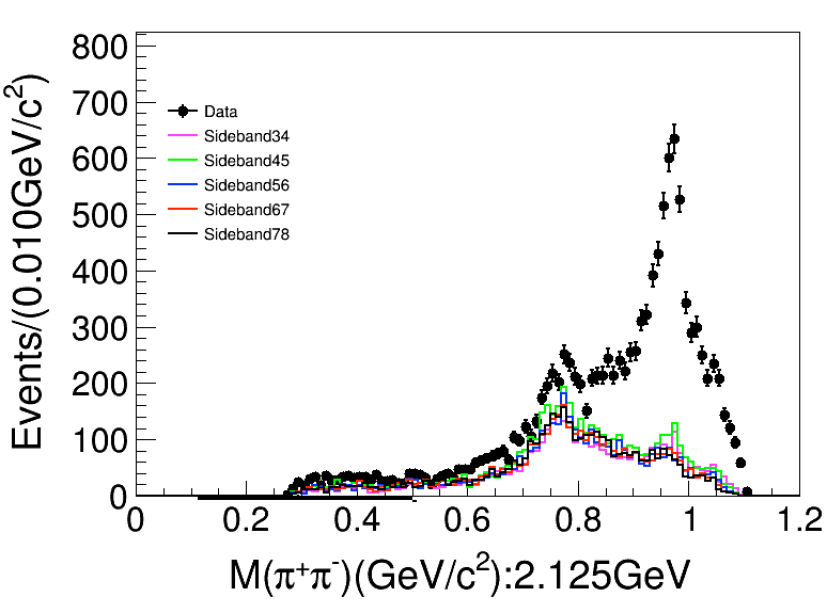
Distributions of $\cos\theta$



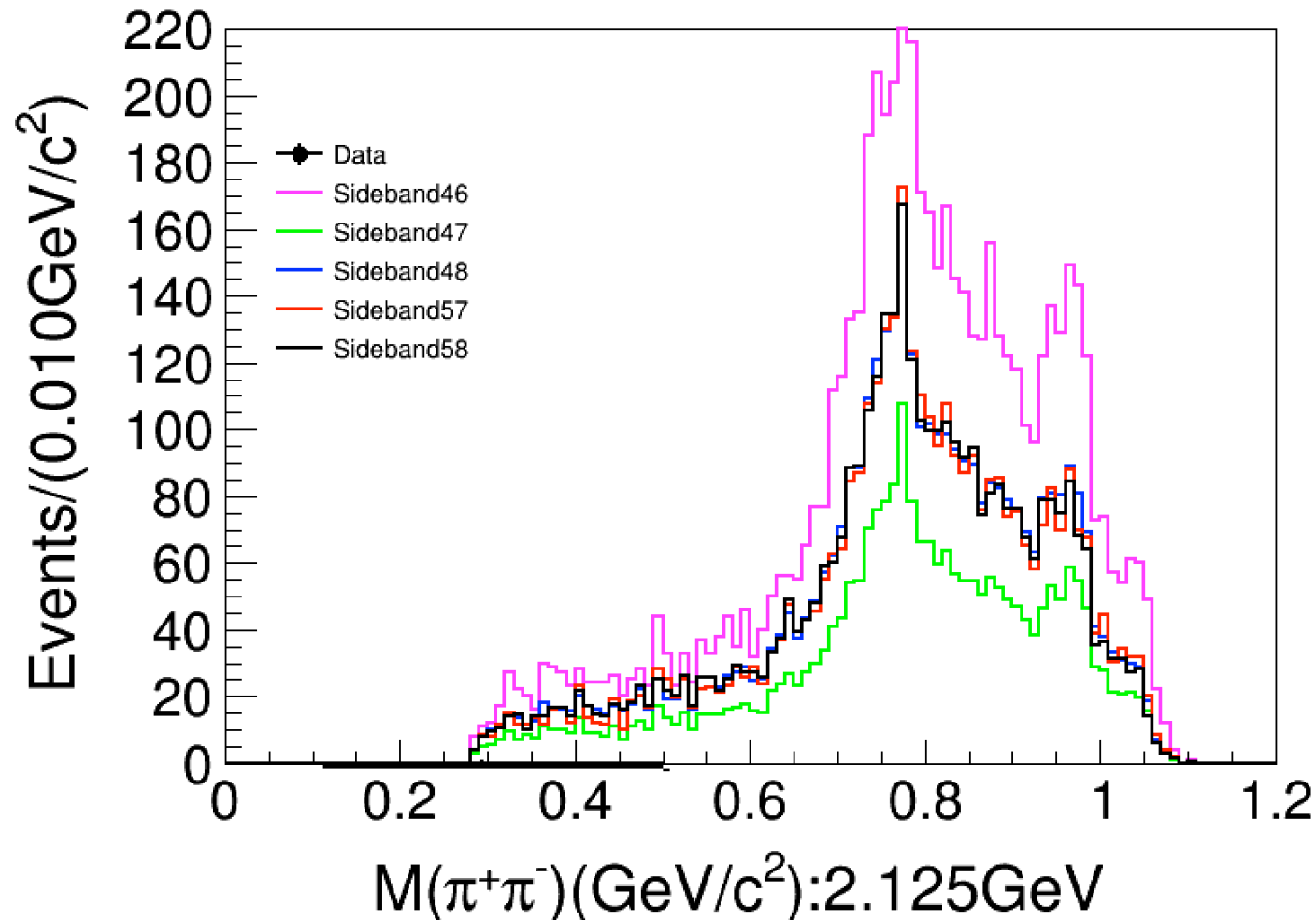
Distributions of ϕ



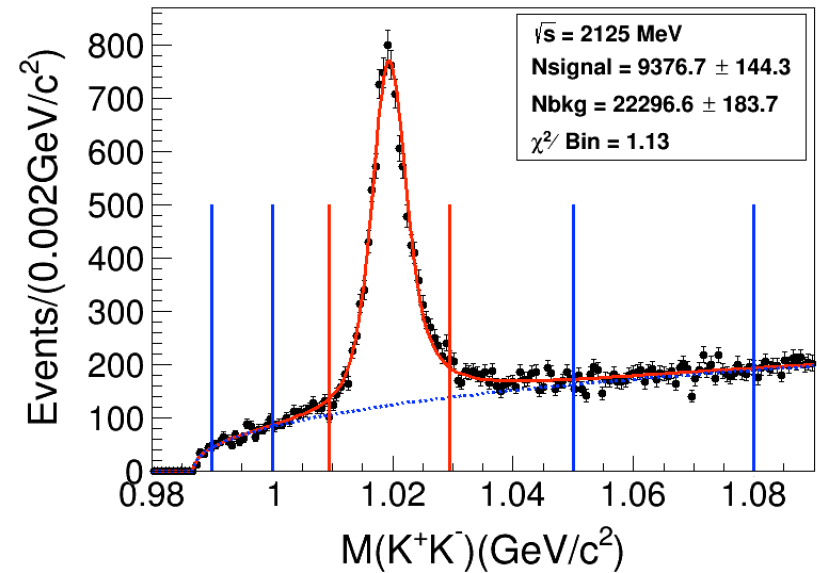
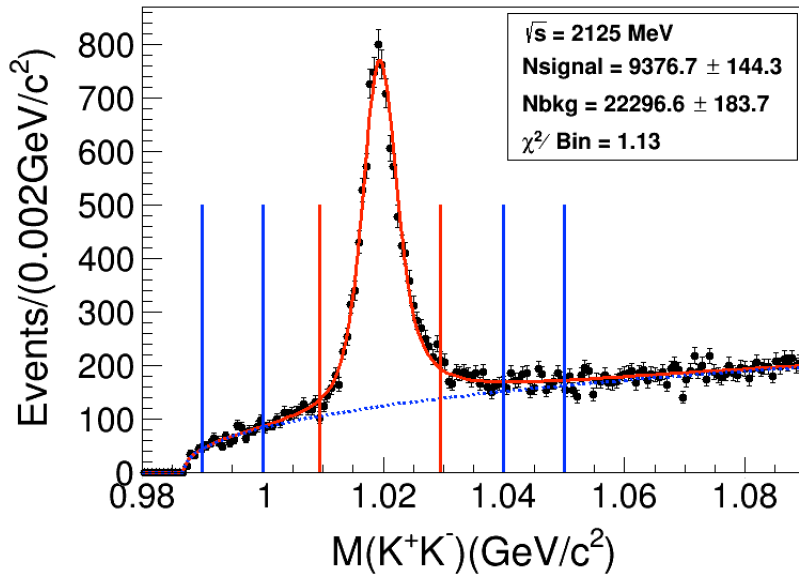
SidebandCheck@2.125 GeV



SidebandCheck@2.125 GeV



SidebandCheck@2.125 GeV



Backup

Kang Xiaolin's PWA

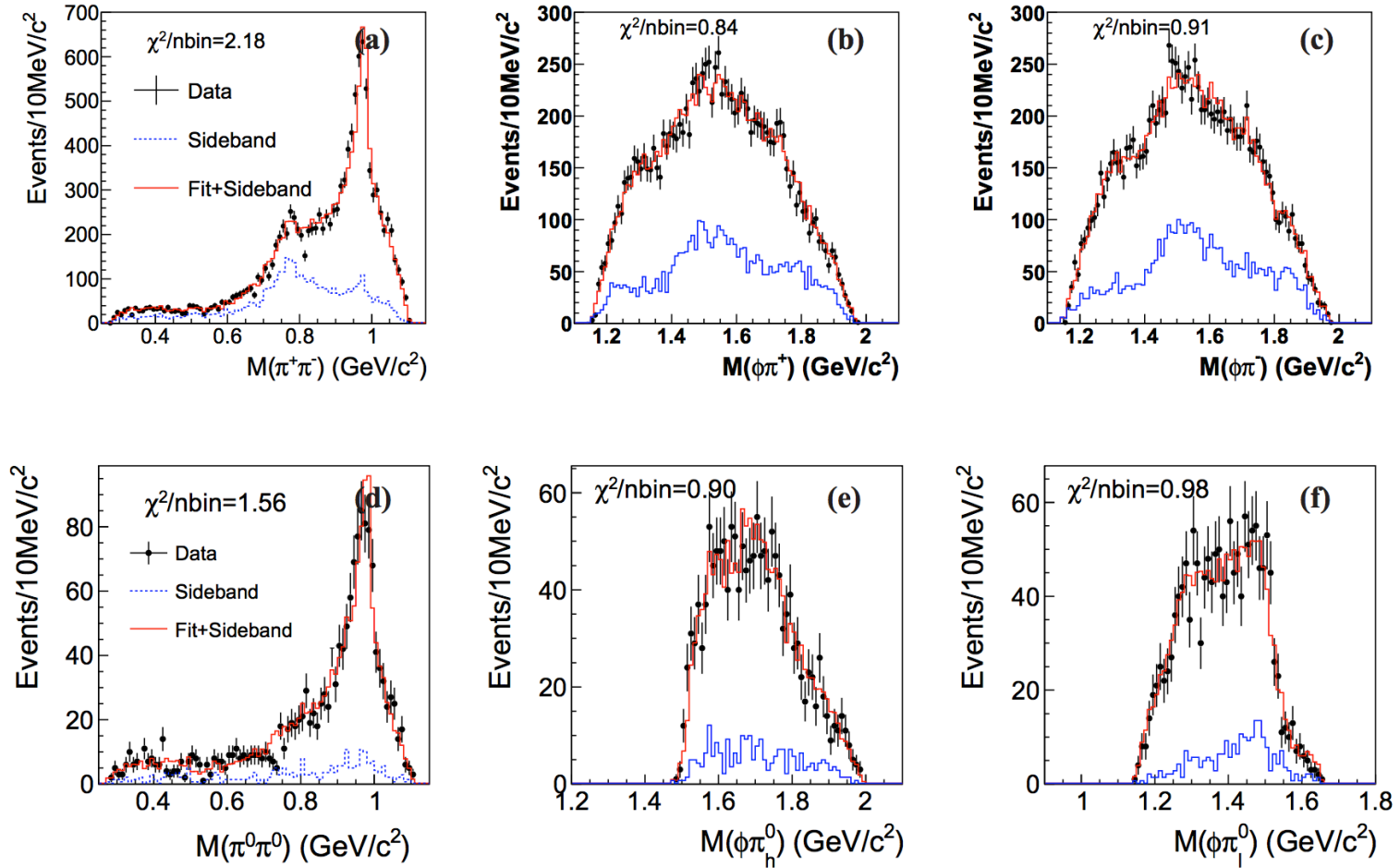
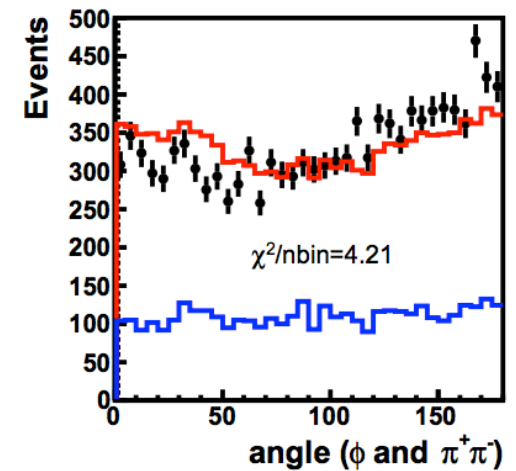
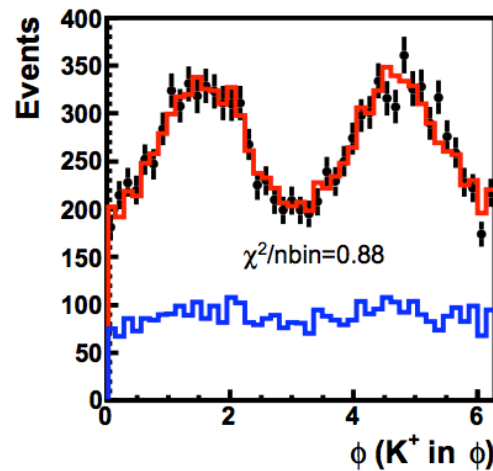
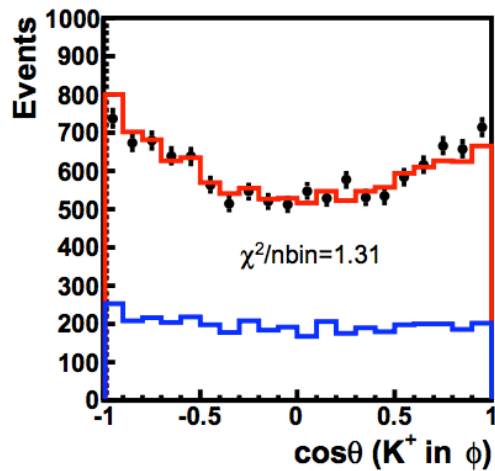
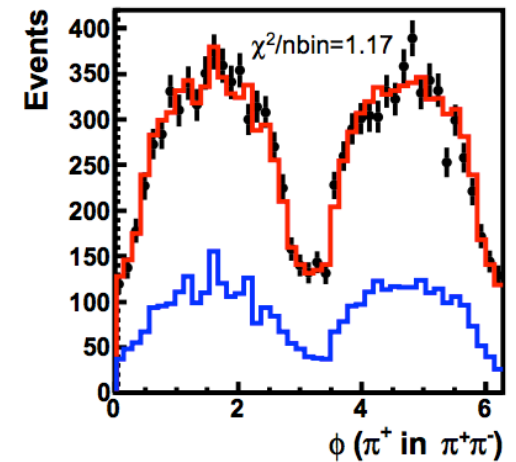
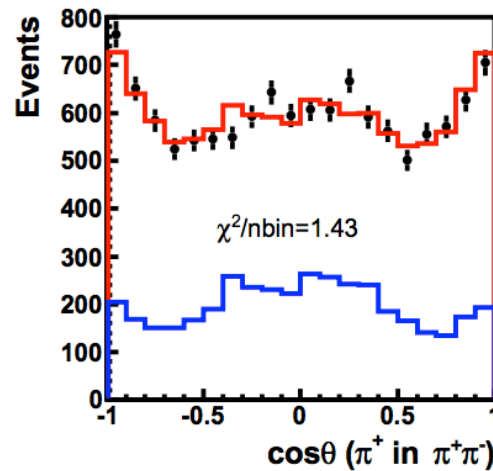
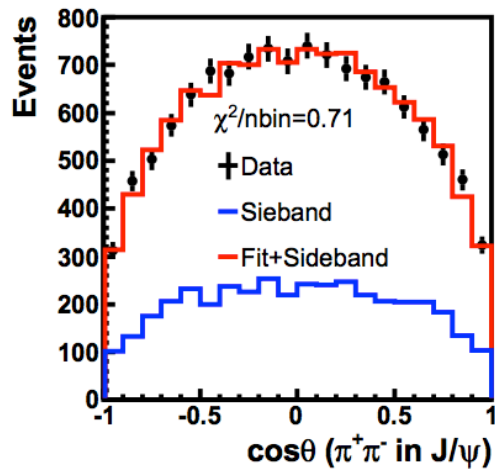


Figure 9: Comparisons of the invariant mass distributions of (a) $\pi^+\pi^-$, (b) $\phi\pi^+$, (c) $\phi\pi^-$, (d) $\pi^0\pi^0$, (e) $\phi\pi_h^0$, and (f) $\phi\pi_l^0$ between data (dots with error bars) and the fit result projections (red histograms).

Kang Xiaolin's PWA



Kang Xiaolin's PWA

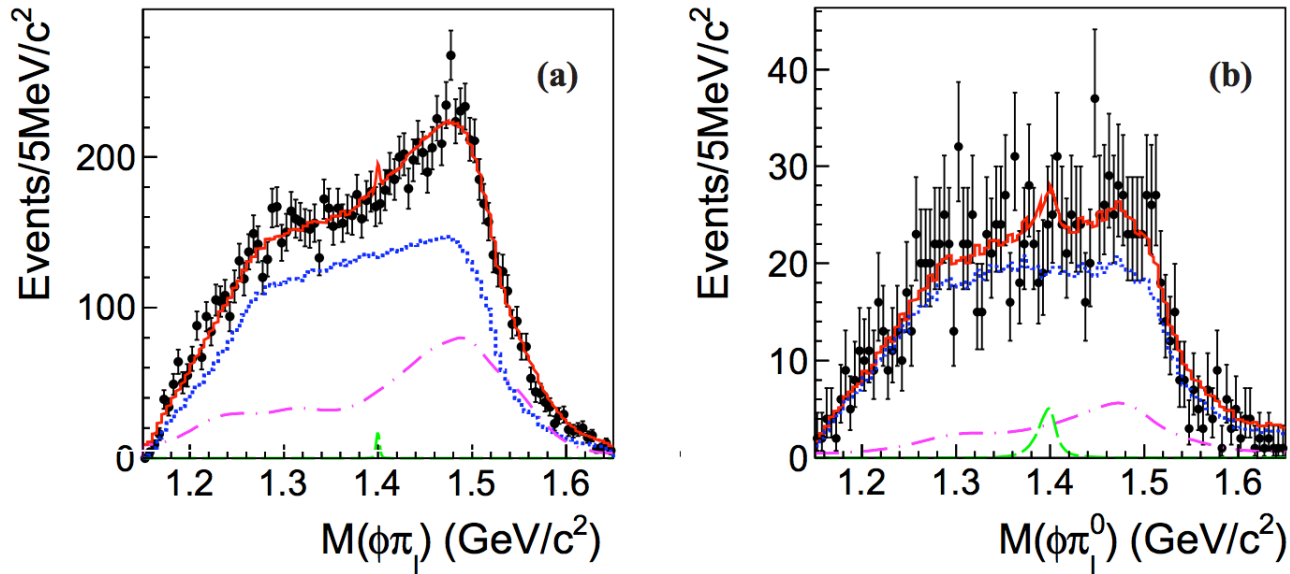


Figure 10: Result of the fits to the invariant mass of (a) $\phi\pi_l^\pm$ and (b) $\phi\pi_l^0$. The dots with error bars are for data, the solid histograms are the fit result, the dotted histograms for $\phi\pi\pi$ backgrounds, the dashed lines for Z_s signals with 0 width, and the dash-dotted lines for non- ϕ backgrounds.

Kang Xiaolin's PWA

Table 5: Parameters of resonances in PWA fit.

Channel	Mass (MeV/c ²)	Width (MeV/c ²)
$f_0(980)$	965 ± 10	see in above
$f_0(1370)$	1350 ± 50	265 ± 40
$f_2(1270)$	1275 ± 15	190 ± 20
σ	see in above	see in above