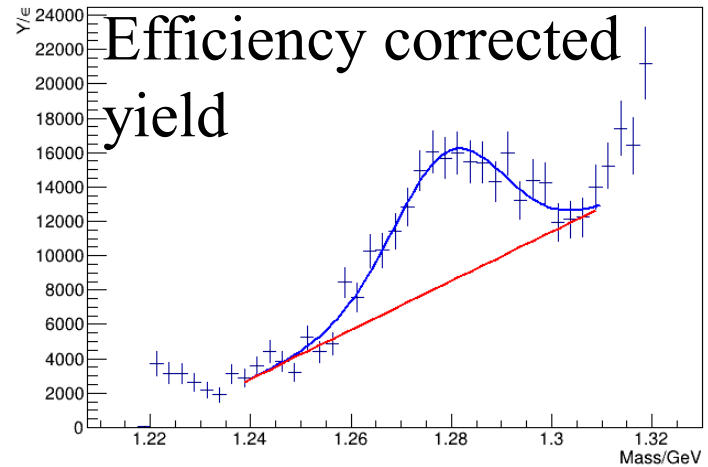
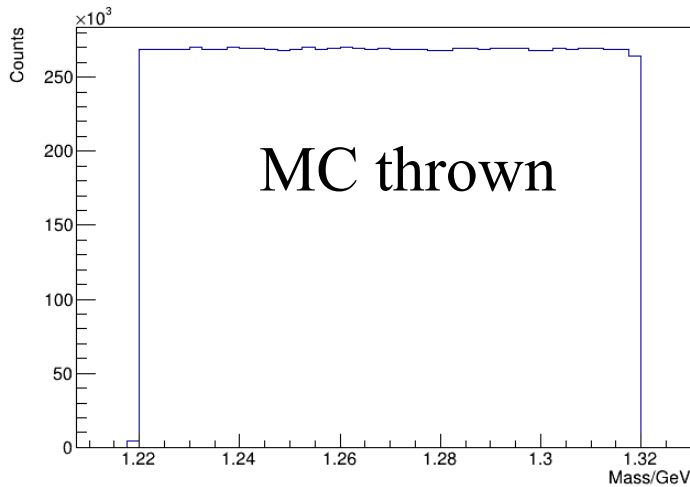
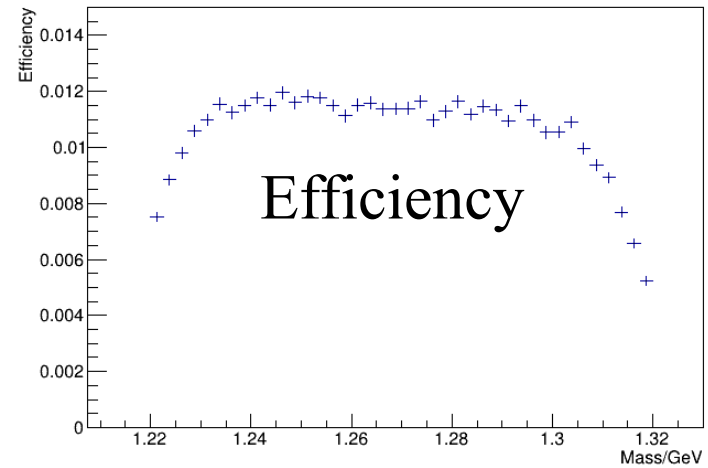
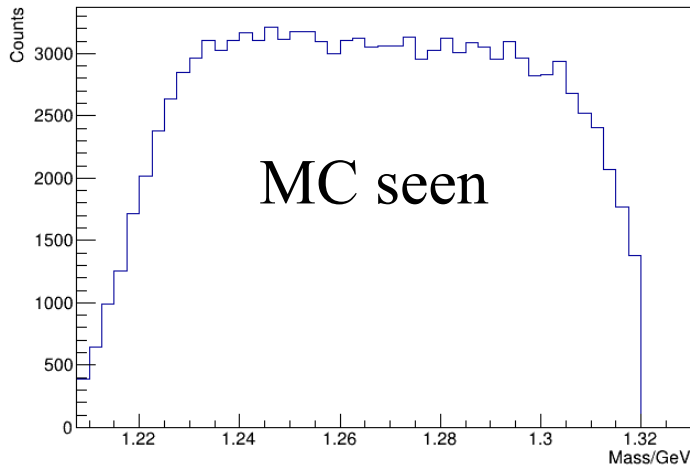
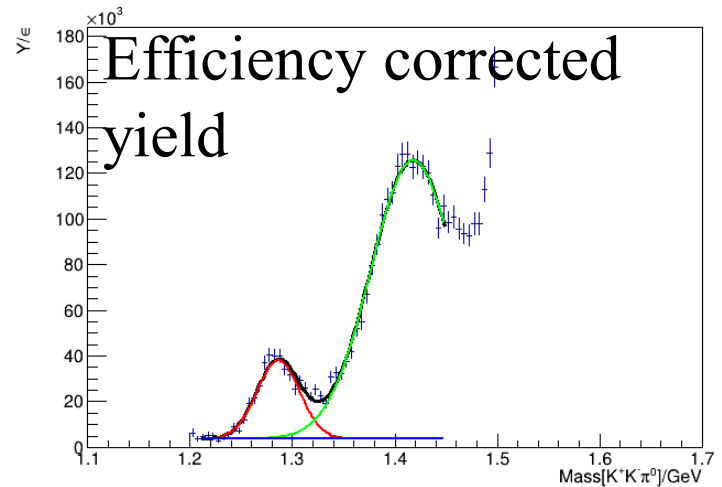
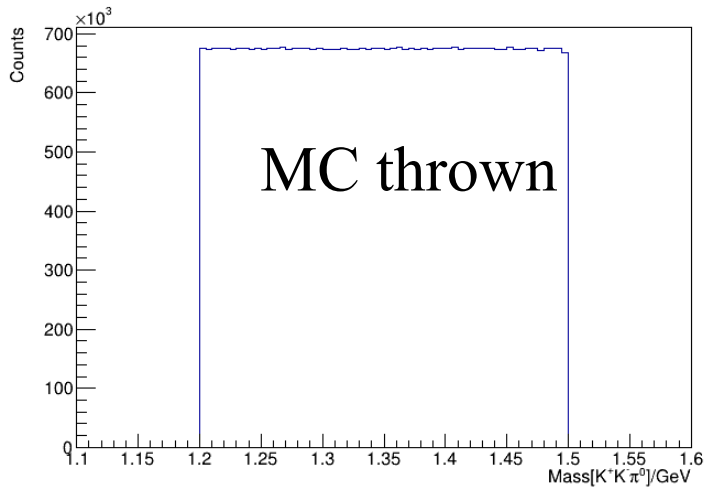
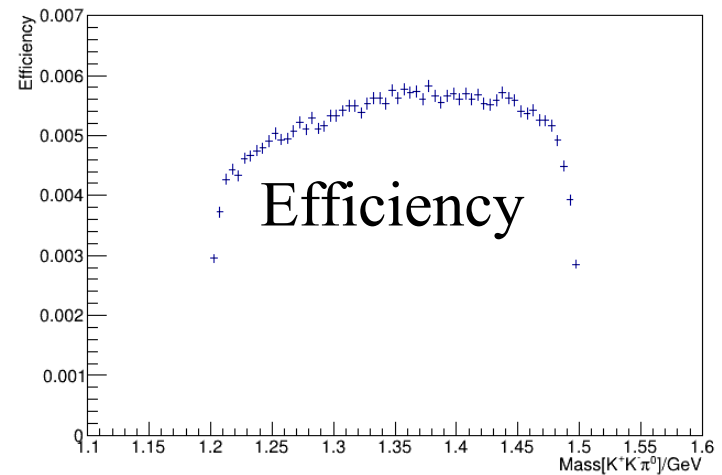
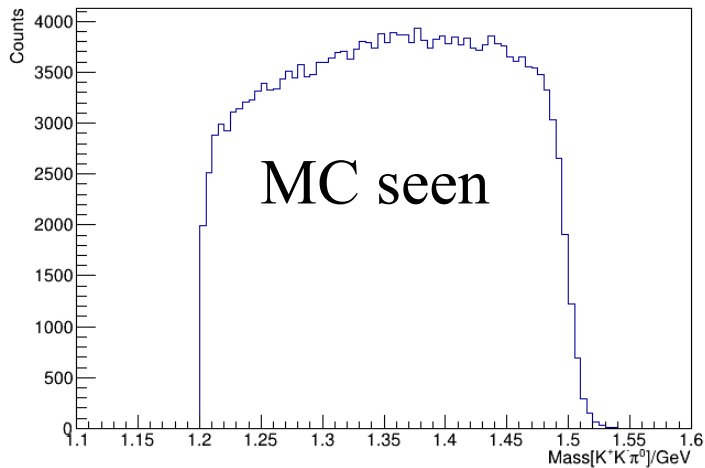


Low-mass $K^+K^-\pi^0$ study

$K^+K^-\pi^0$: Old mass-range (1.22–1.32 GeV)



$K^+K^-\pi^0$: New mass-range (1.2–1.5 GeV)



Mass[$K^+\pi^0$] vs Mass[$K^-\pi^0$]

Reaction: $\gamma p \rightarrow p K^+ K^- \pi^0$

Mass[$K^+\pi^0$] vs Mass[$K^-\pi^0$]

Reaction: $\gamma p \rightarrow p K^+ K^- \pi^0$ asdf

Can group :

$K^-\pi^0$ as $K^{*-}(892)$

Mass[$K^+\pi^0$] vs Mass[$K^-\pi^0$]

Reaction: $\gamma p \rightarrow p K^+ K^- \pi^0$ asdf

Can group :

$K^-\pi^0$ as K^{*-} (892)

OR

$K^+\pi^0$ as K^{*+} (892)

Mass[$K^+\pi^0$] vs Mass[$K^-\pi^0$]

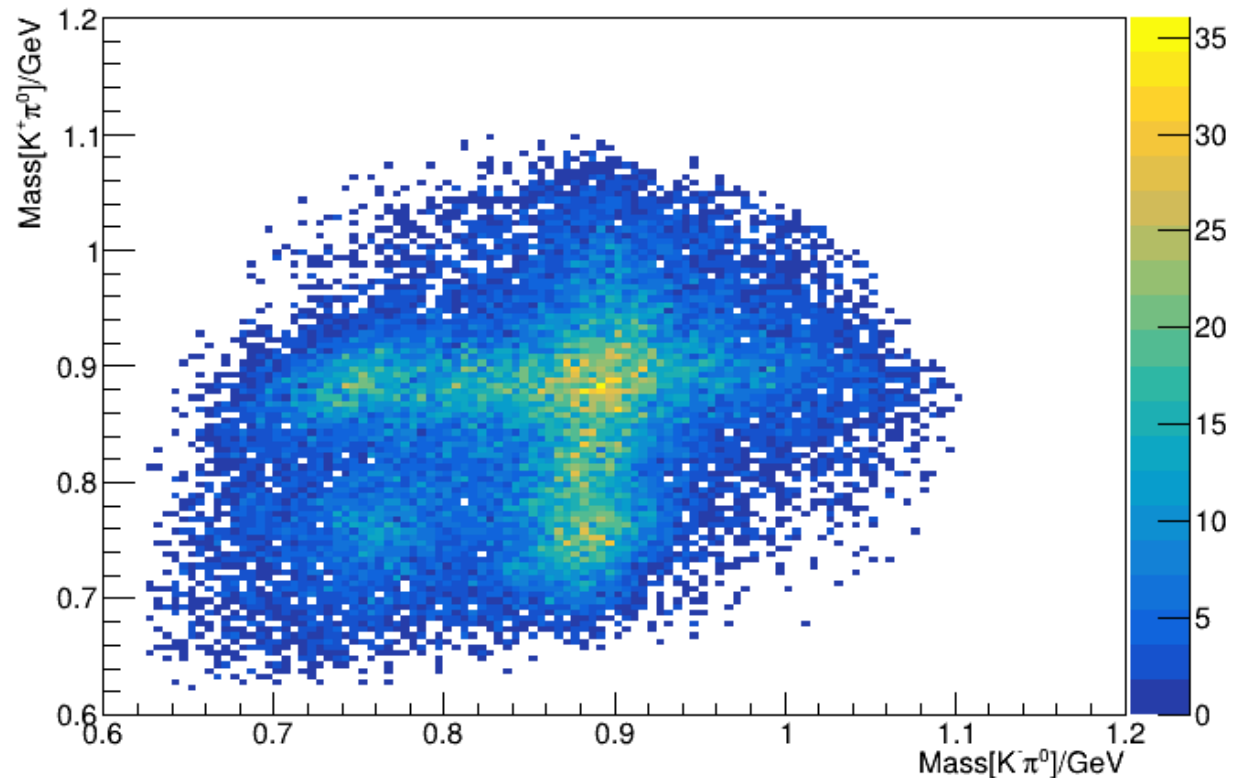
Reaction: $\gamma p \rightarrow p K^+ K^- \pi^0$ asdf

Can group :

$K^-\pi^0$ as K^{*-} (892)

OR

$K^+\pi^0$ as K^{*+} (892)



Mass[$K^+\pi^0$] vs Mass[$K^-\pi^0$]

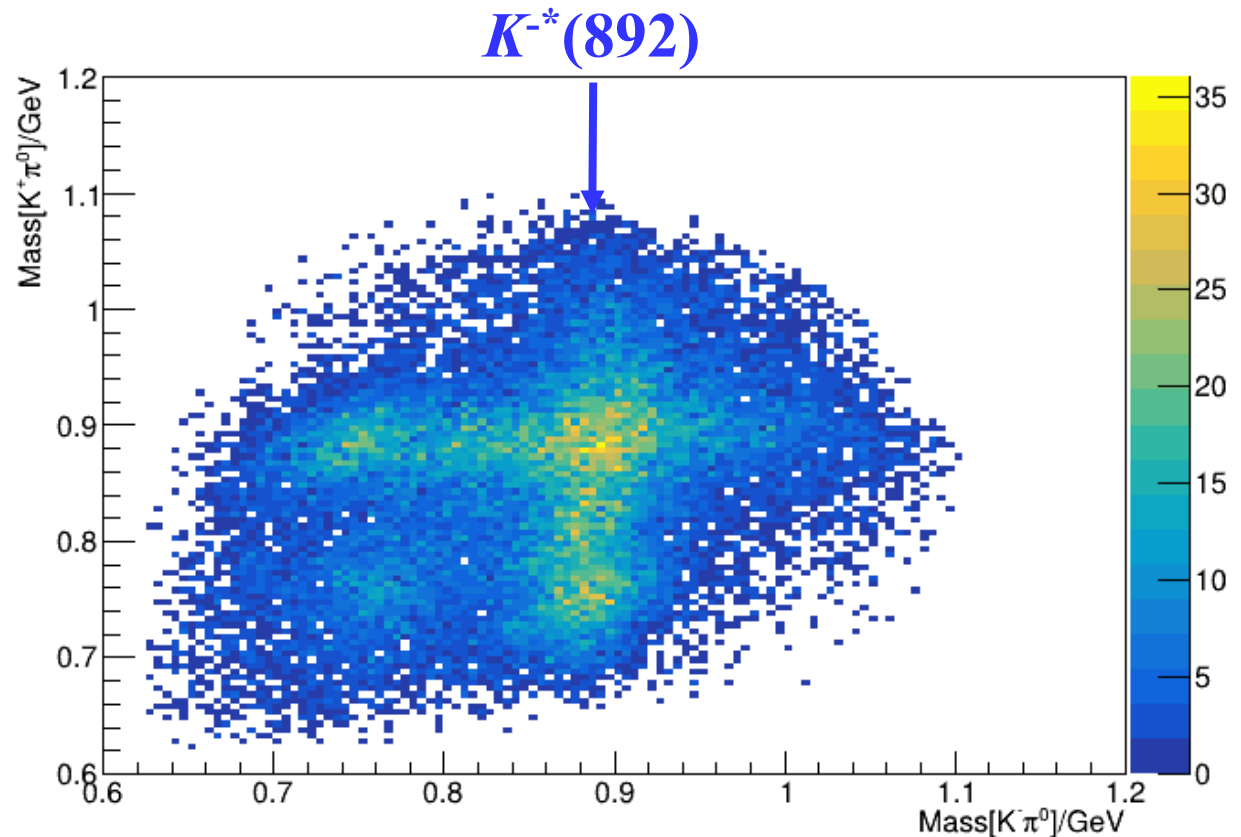
Reaction: $\gamma p \rightarrow p K^+ K^- \pi^0$ asdf

Can group :

$K^-\pi^0$ as $K^{*-}(892)$

OR

$K^+\pi^0$ as $K^{*+}(892)$



Mass[$K^+\pi^0$] vs Mass[$K^-\pi^0$]

Reaction: $\gamma p \rightarrow p K^+ K^- \pi^0$ asdf

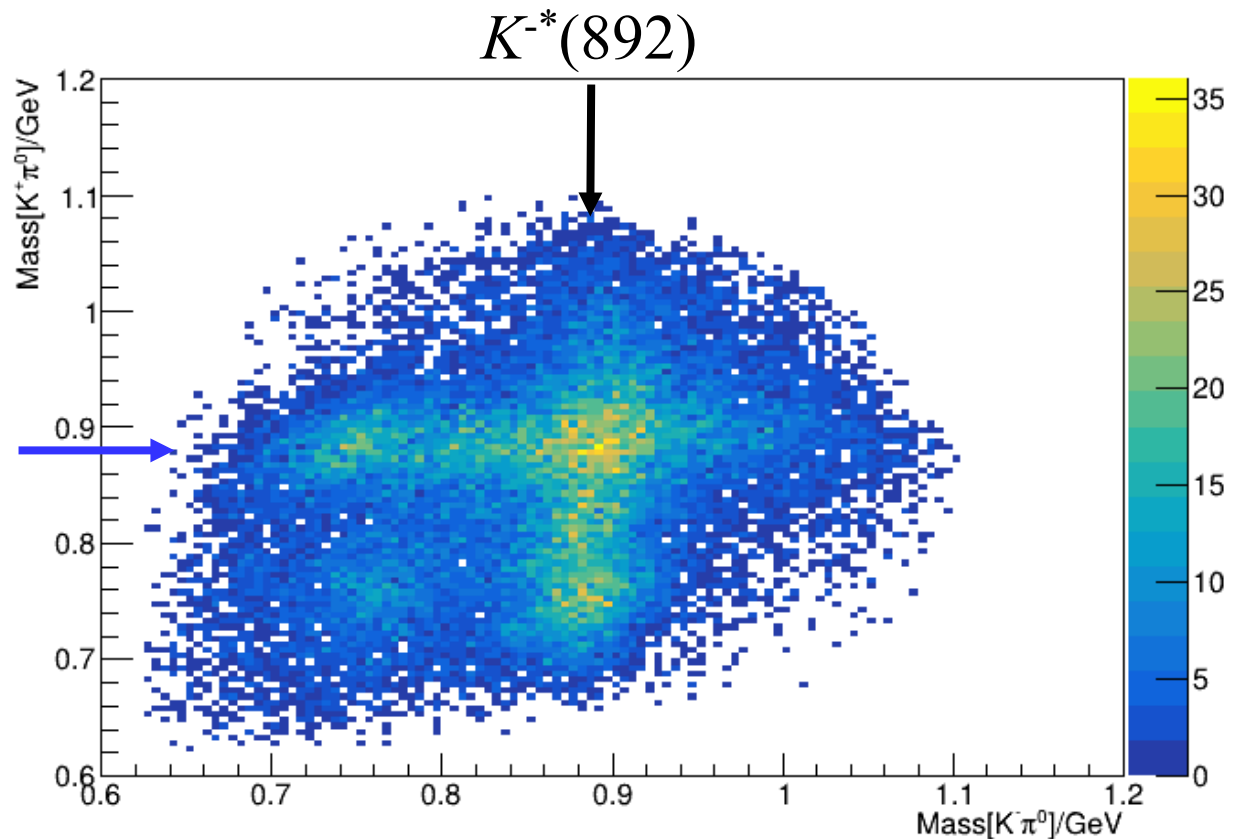
Can group :

$K^-\pi^0$ as $K^{*-}(892)$

OR

$K^+\pi^0$ as $K^{*+}(892)$

$K^{*+}(892)$



Mass[$K^+\pi^0$] vs Mass[$K^-\pi^0$]

Reaction: $\gamma p \rightarrow p K^+ K^- \pi^0$ asdf

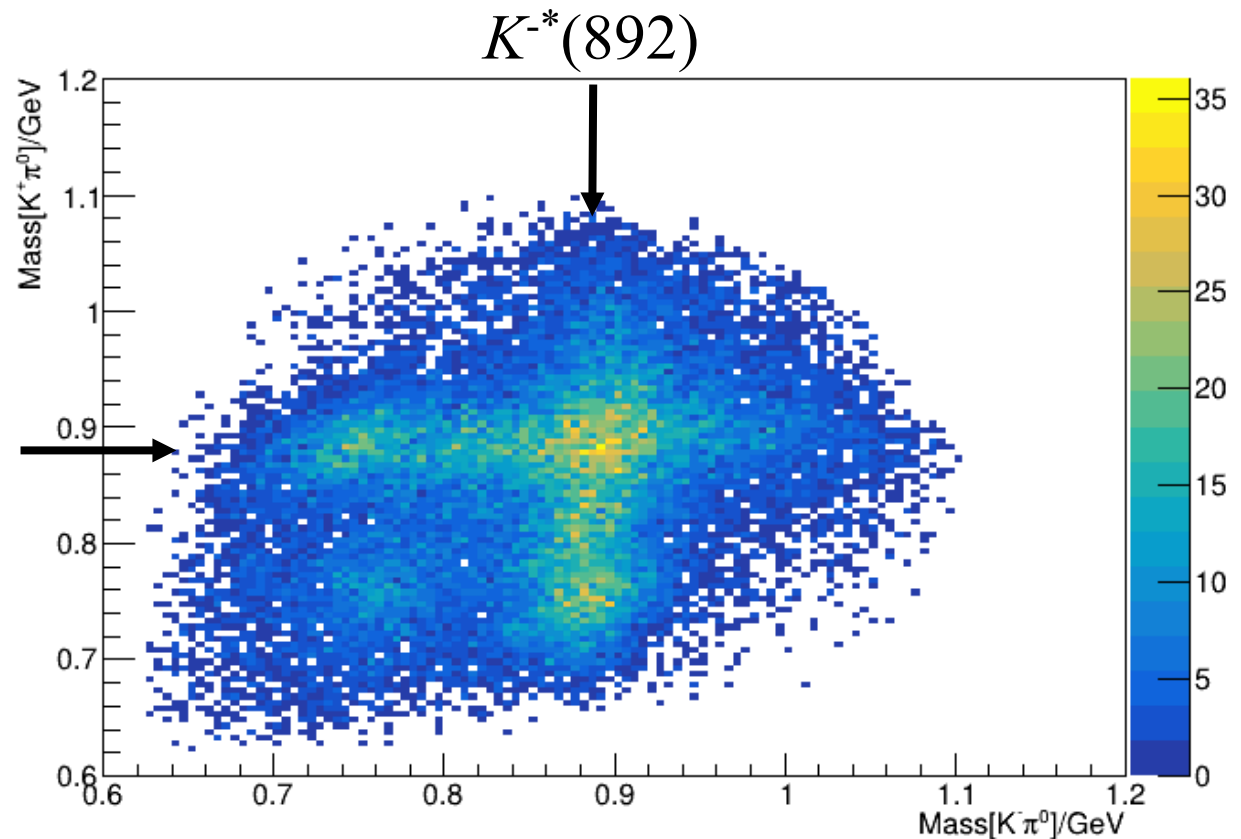
Can group :

$K^-\pi^0$ as $K^{*-}(892)$

OR

$K^+\pi^0$ as $K^{*+}(892)$

$K^{*+}(892)$ →



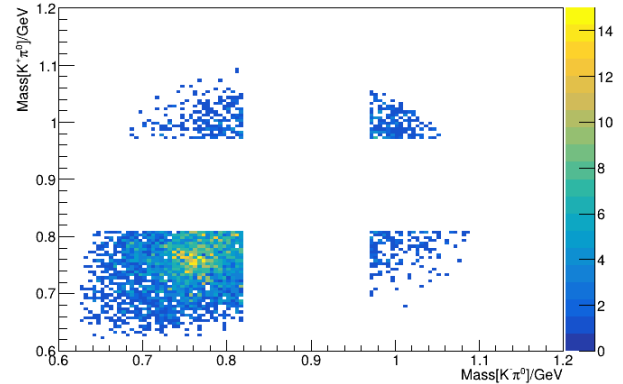
Three types of final states of interest

Three types of final states of interest

- Mass not consistent with K^{+*} or K^{-*}

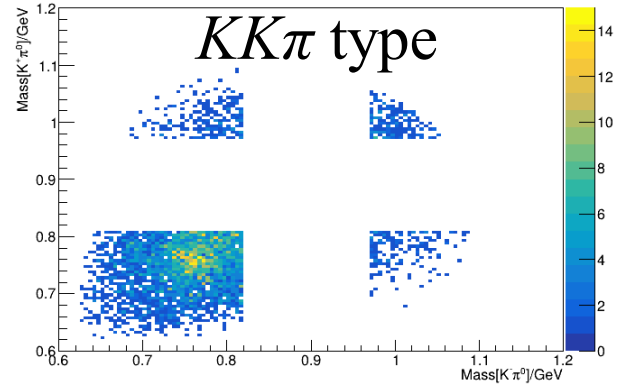
Three types of final states of interest

- Mass not consistent with K^{+*} or K^{-*} →



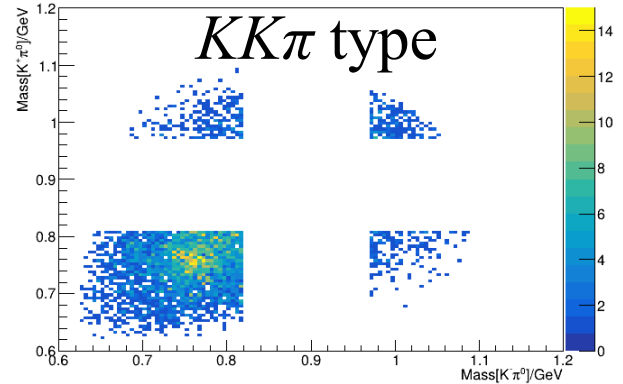
Three types of final states of interest

- Mass not consistent with K^{+*} or K^{-*} →



Three types of final states of interest

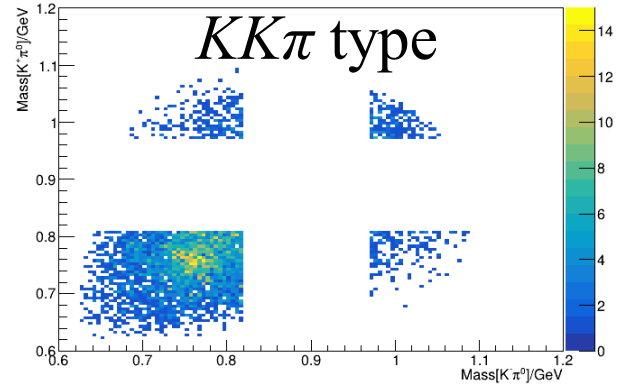
- Mass not consistent with K^{+*} or K^{-*} \longrightarrow



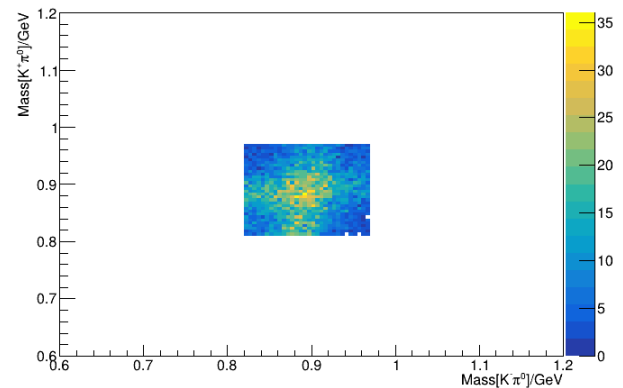
- Mass consistent with K^{+*} and K^{-*}

Three types of final states of interest

- Mass not consistent with K^{+*} or K^{-*} →

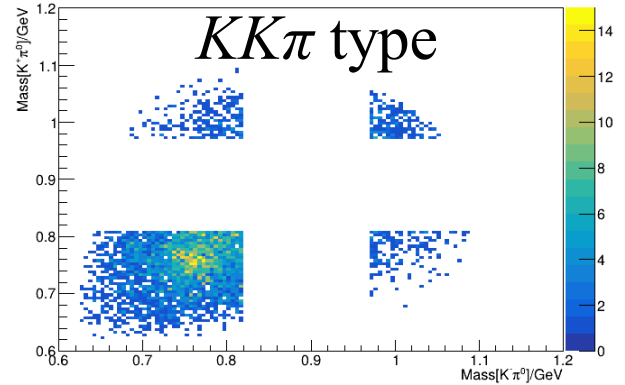


- Mass consistent with K^{+*} and K^{-*} →

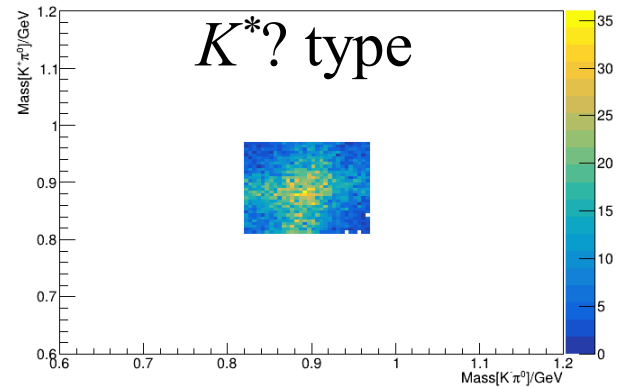


Three types of final states of interest

- Mass not consistent with K^{+*} or K^{-*} →

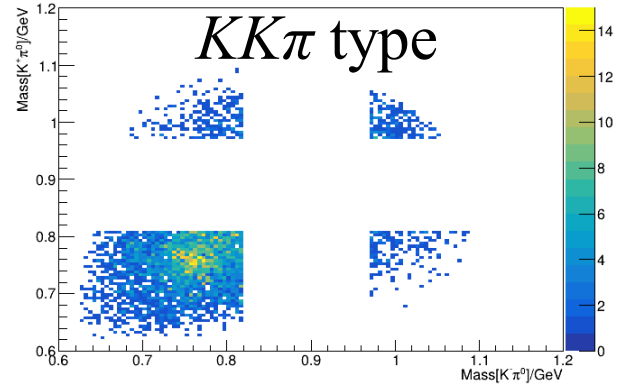


- Mass consistent with K^{+*} and K^{-*} →

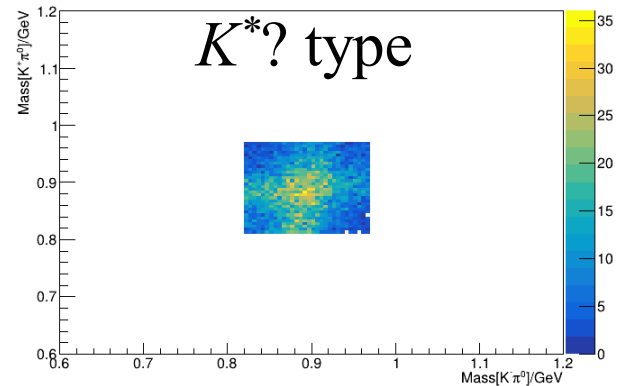


Three types of final states of interest

- Mass not consistent with K^{+*} or K^{-*} →



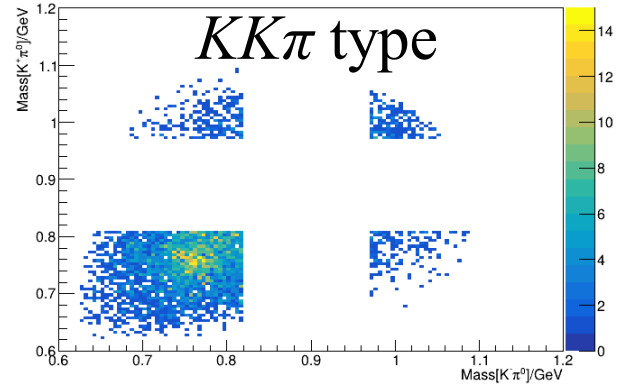
- Mass consistent with K^{+*} and K^{-*} →



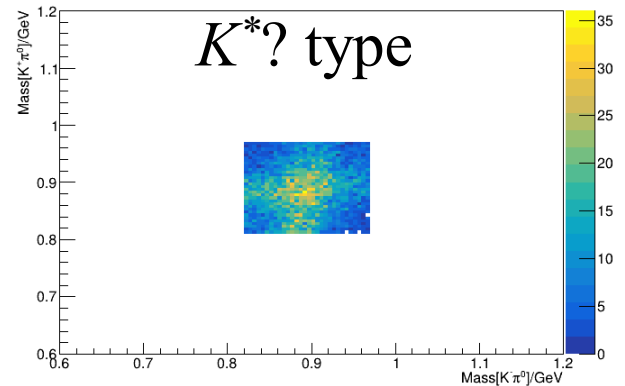
- Mass consistent with K^{+*} XOR K^{-*}

Three types of final states of interest

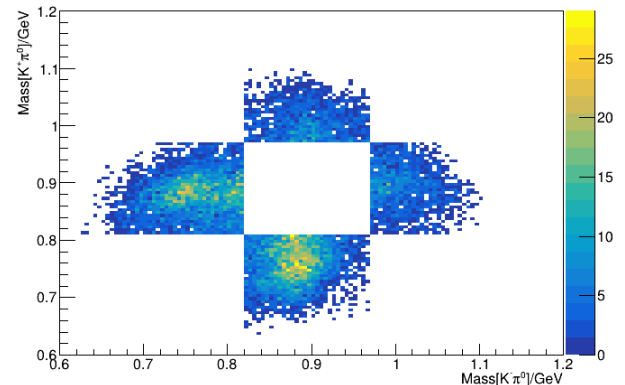
- Mass not consistent with K^{+*} or K^{-*} →



- Mass consistent with K^{+*} and K^{-*} →

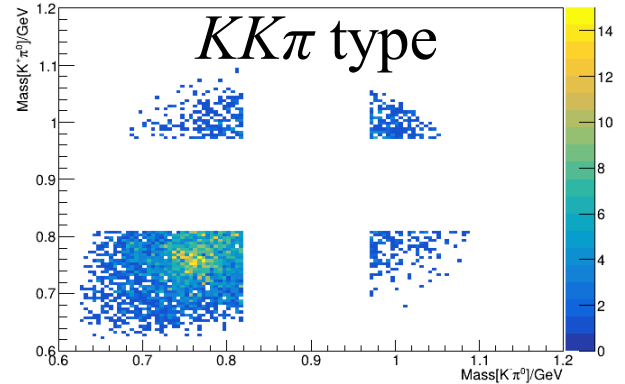


- Mass consistent with K^{+*} XOR K^{-*} →

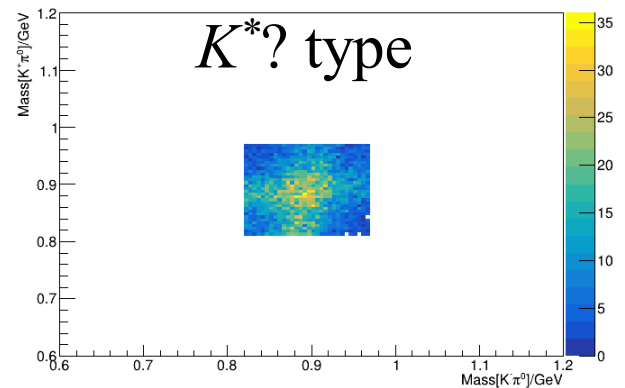


Three types of final states of interest

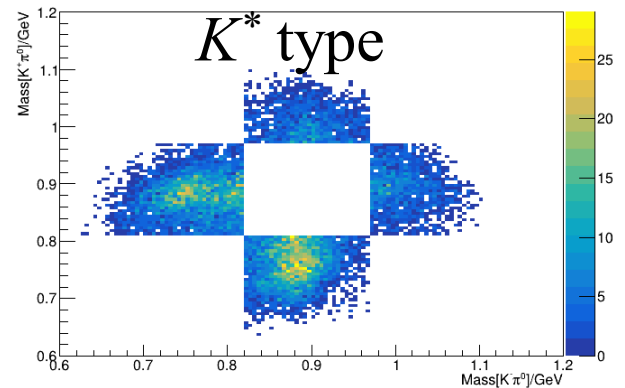
- Mass not consistent with K^{+*} or K^{-*} \longrightarrow



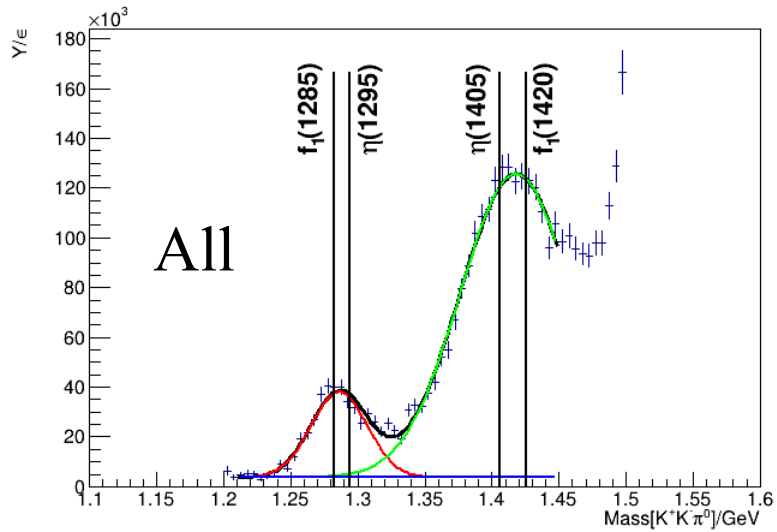
- Mass consistent with K^{+*} and K^{-*} \longrightarrow



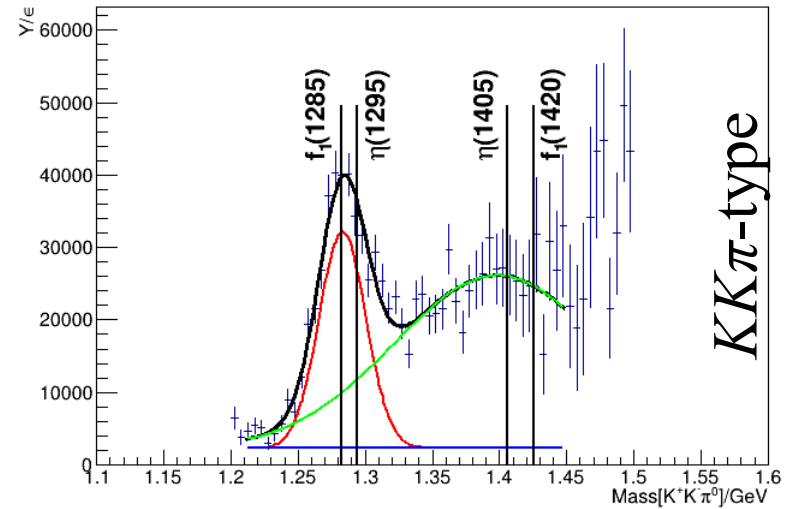
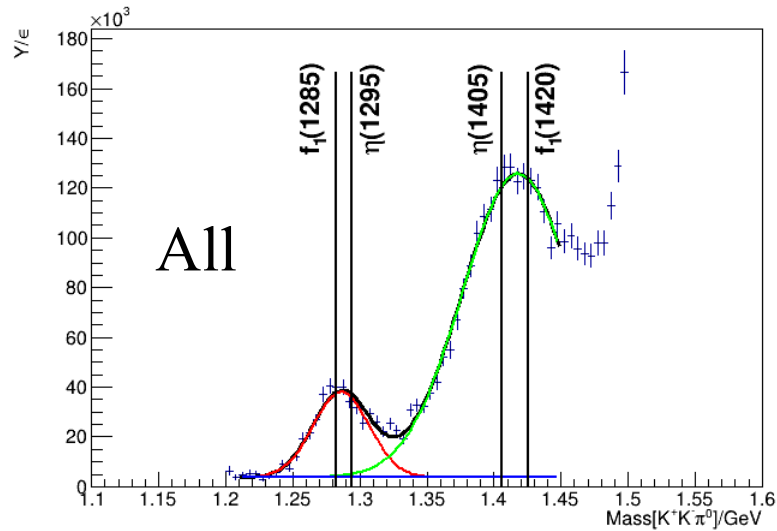
- Mass consistent with K^{+*} XOR K^{-*} \longrightarrow



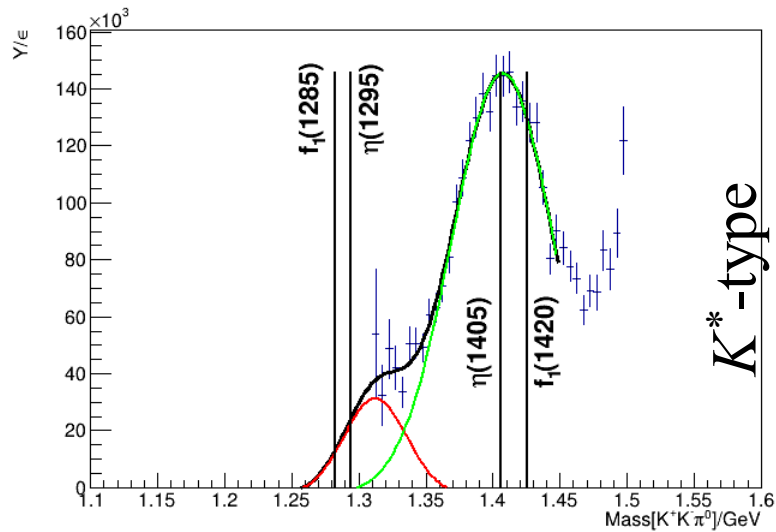
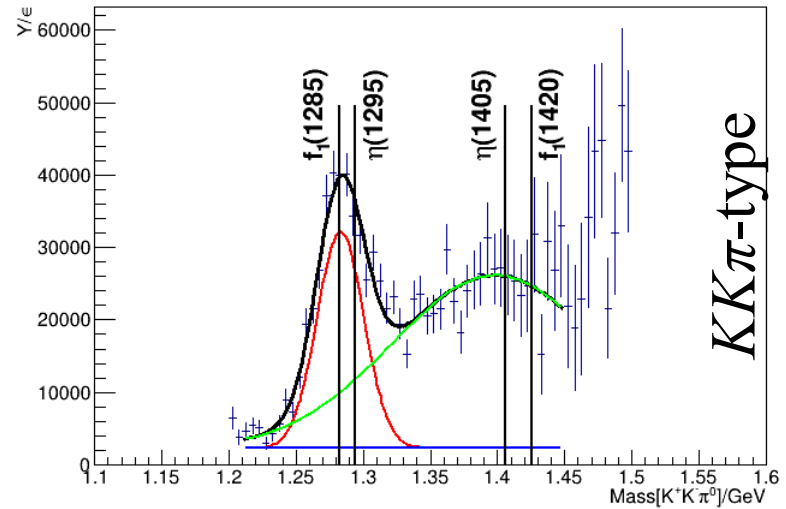
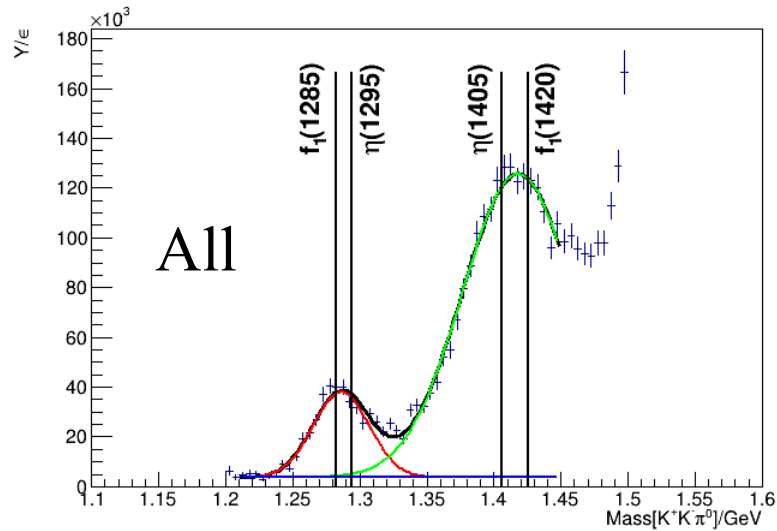
Efficiency corrected yields



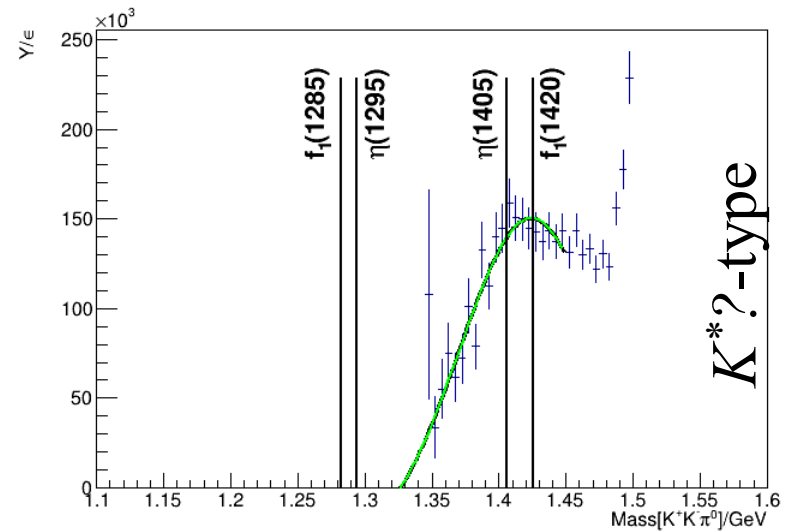
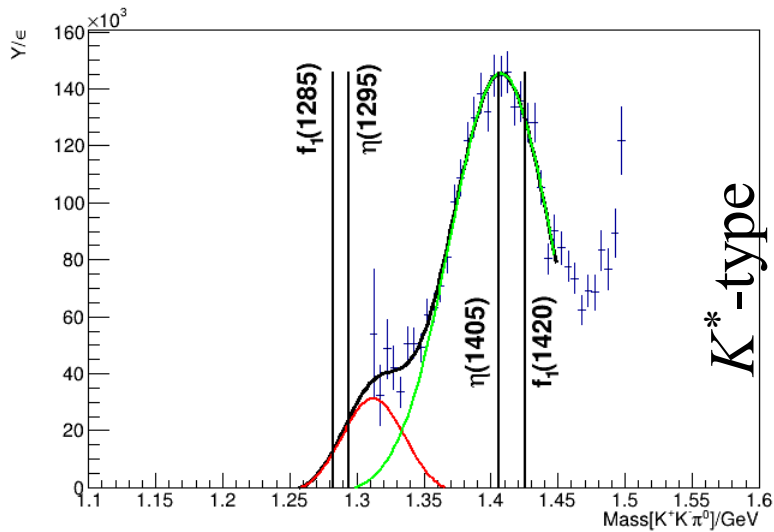
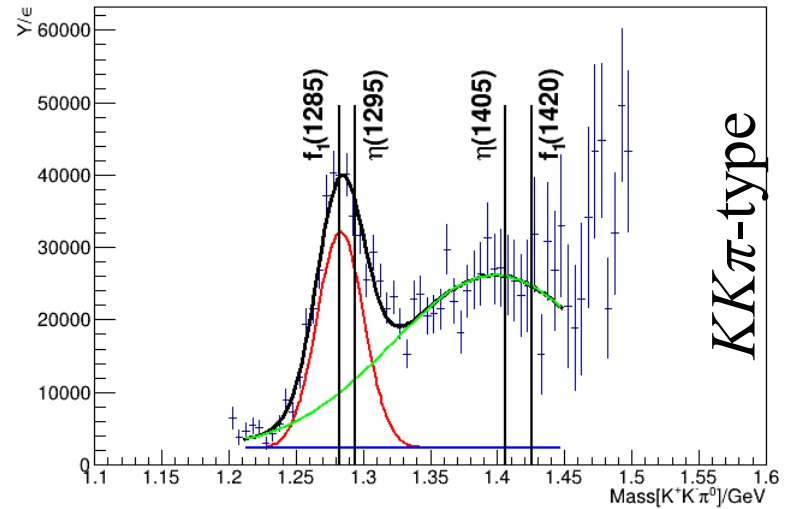
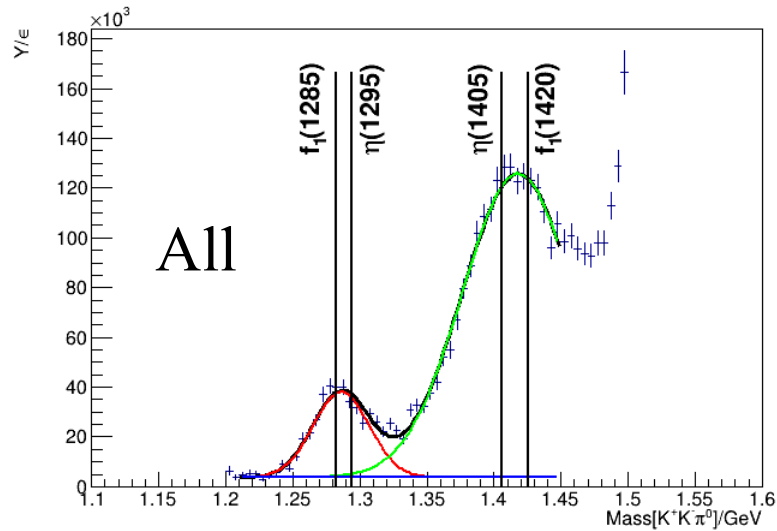
Efficiency corrected yields



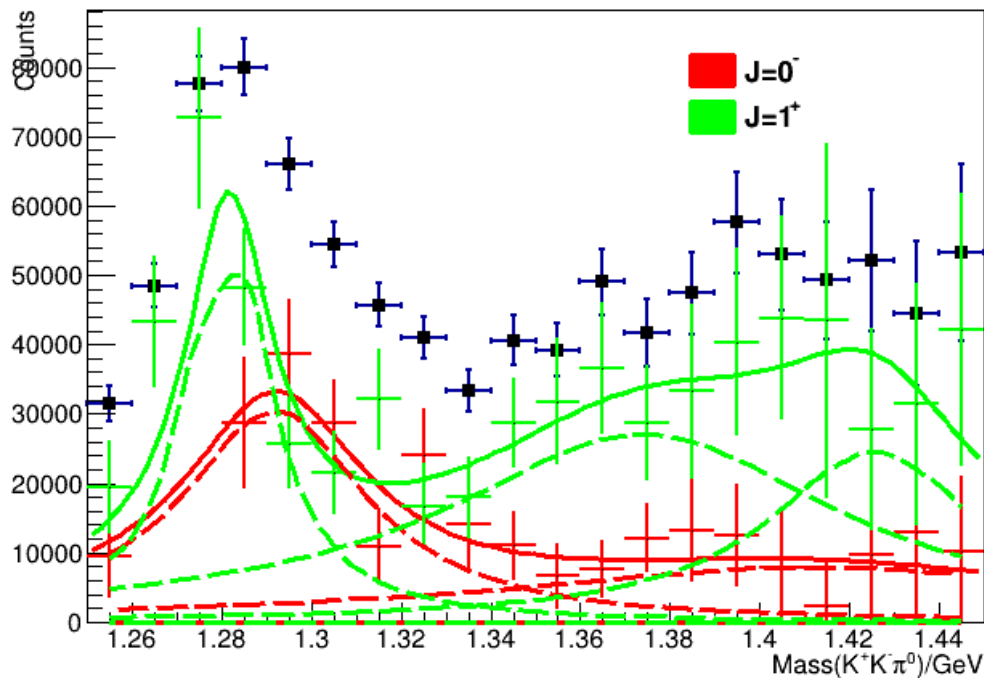
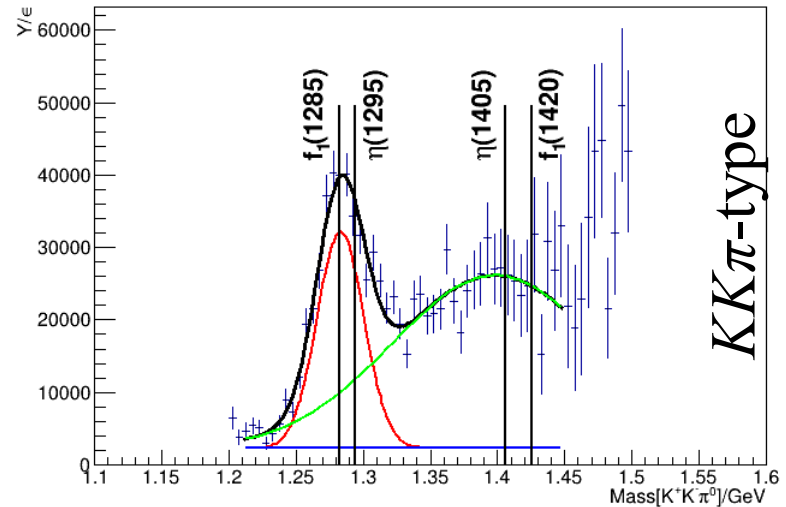
Efficiency corrected yields



Efficiency corrected yields



Preliminary fit to the $KK\pi$ -type



Title

