

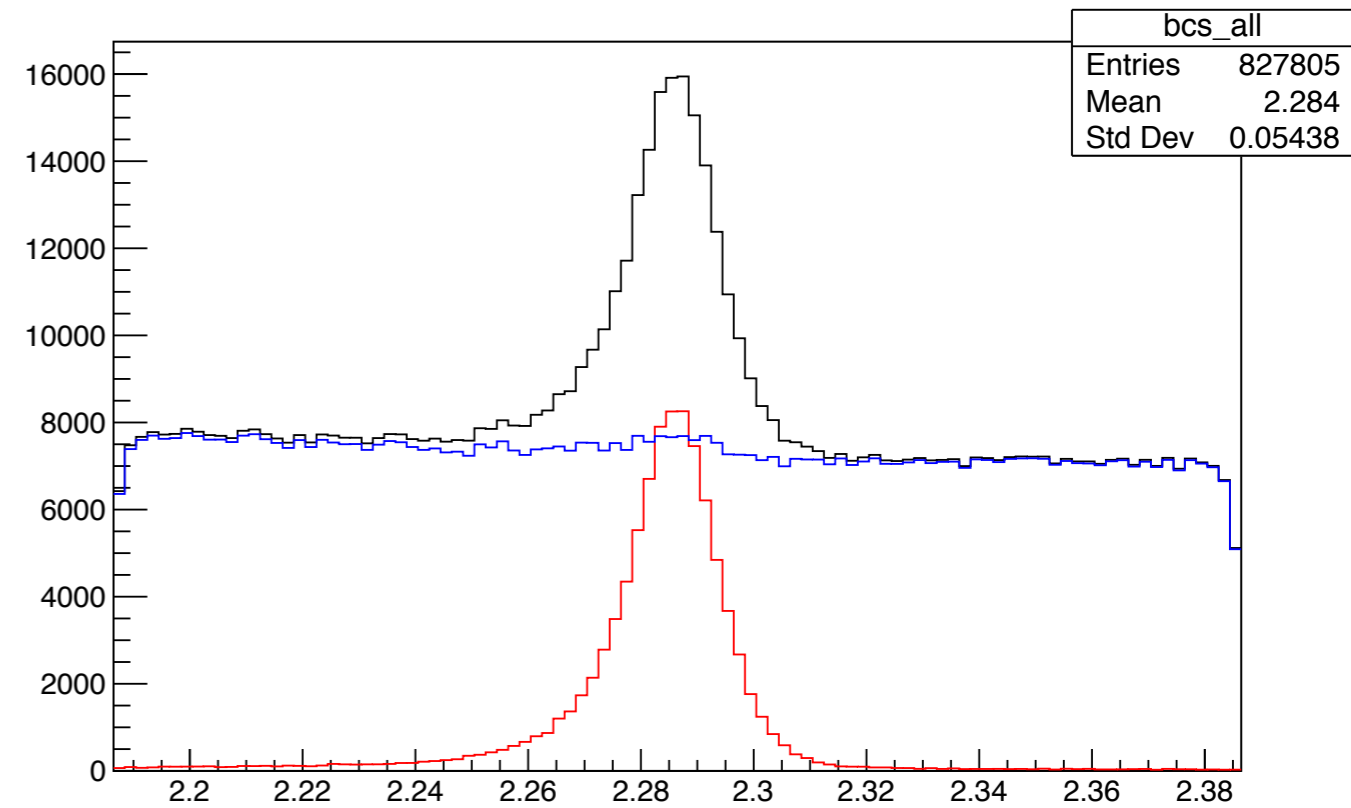
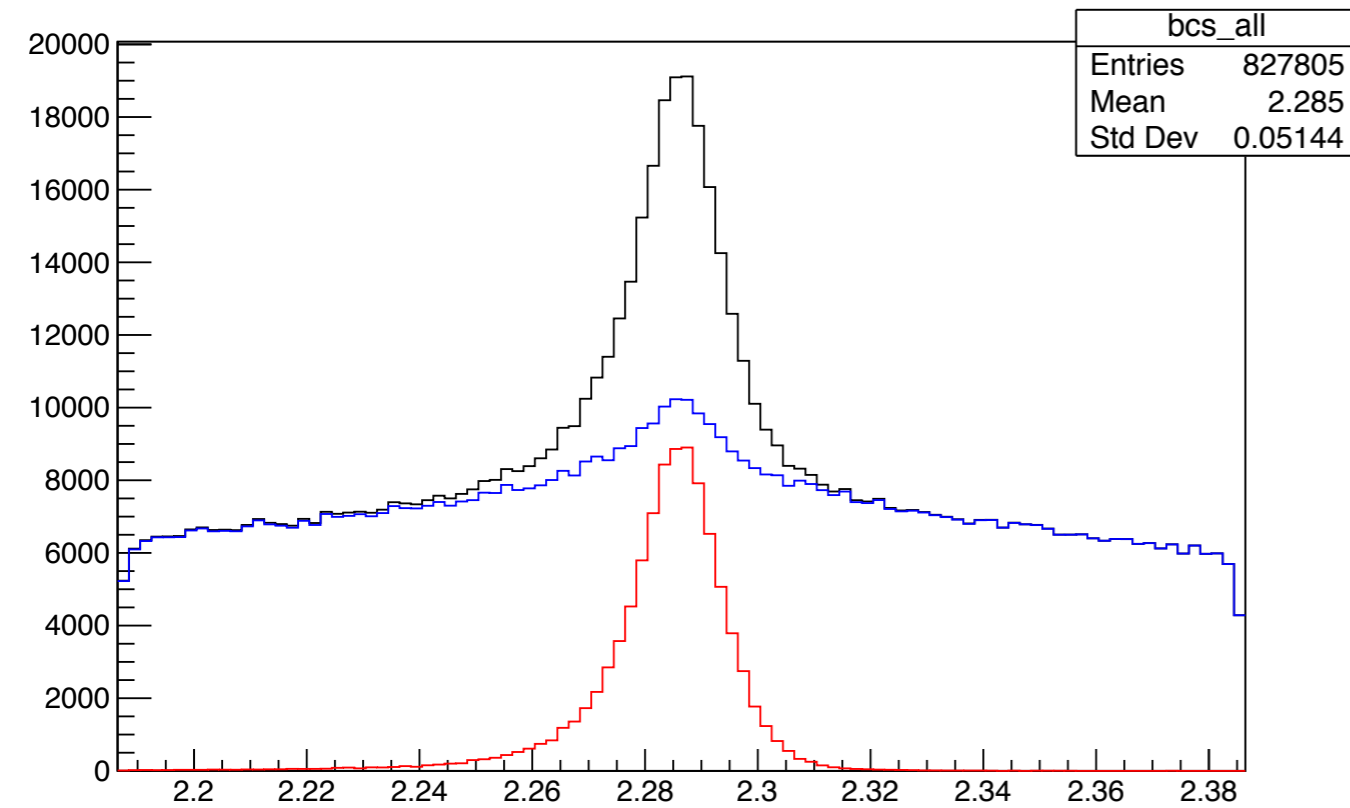
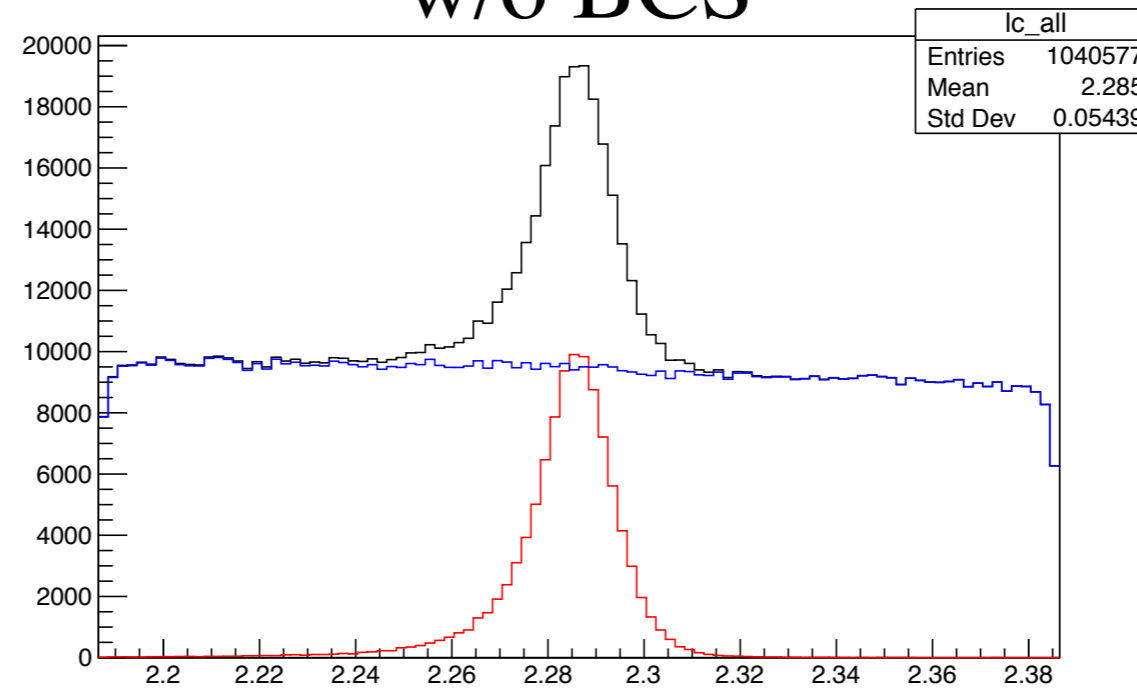
# HANUL Meeting

## 2019. 02. 19

YoungJun Kim

# BCS result

w/o BCS

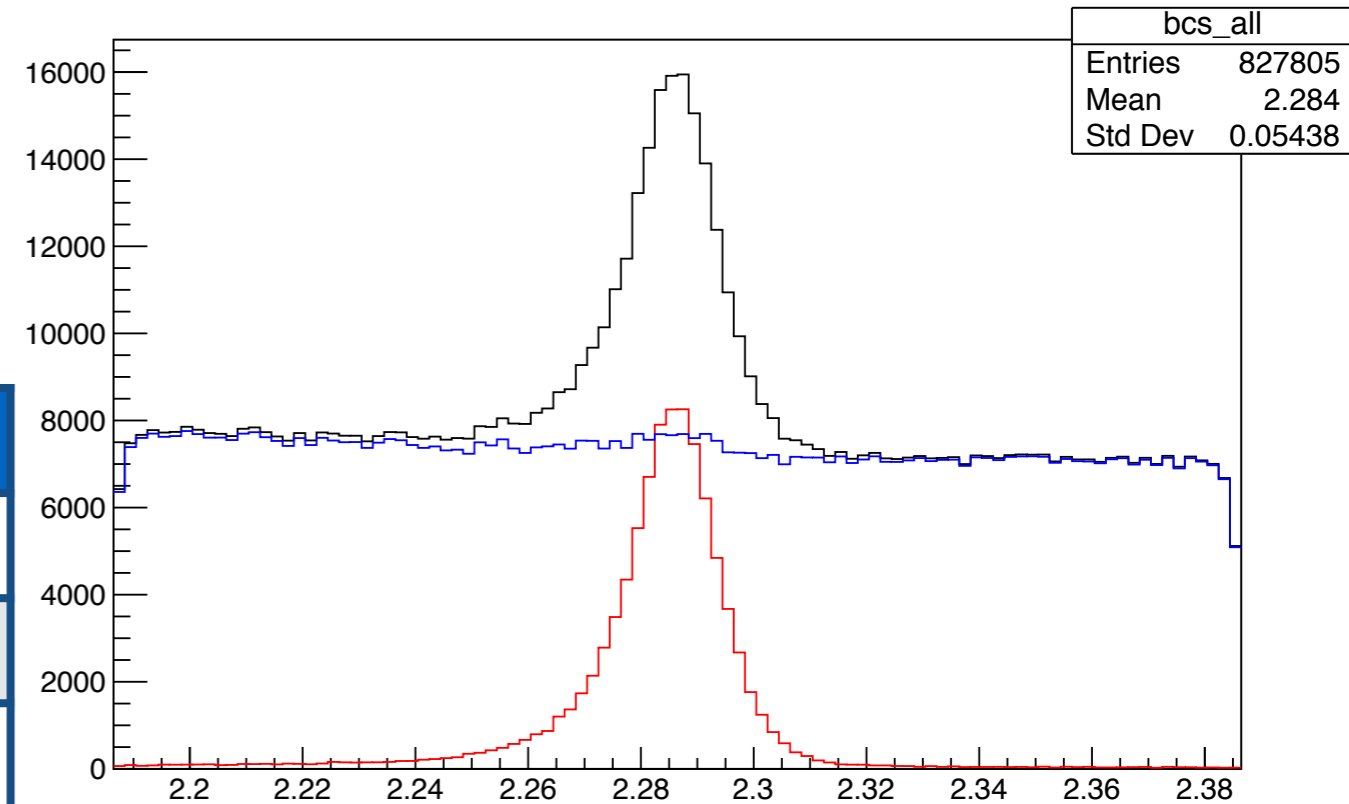
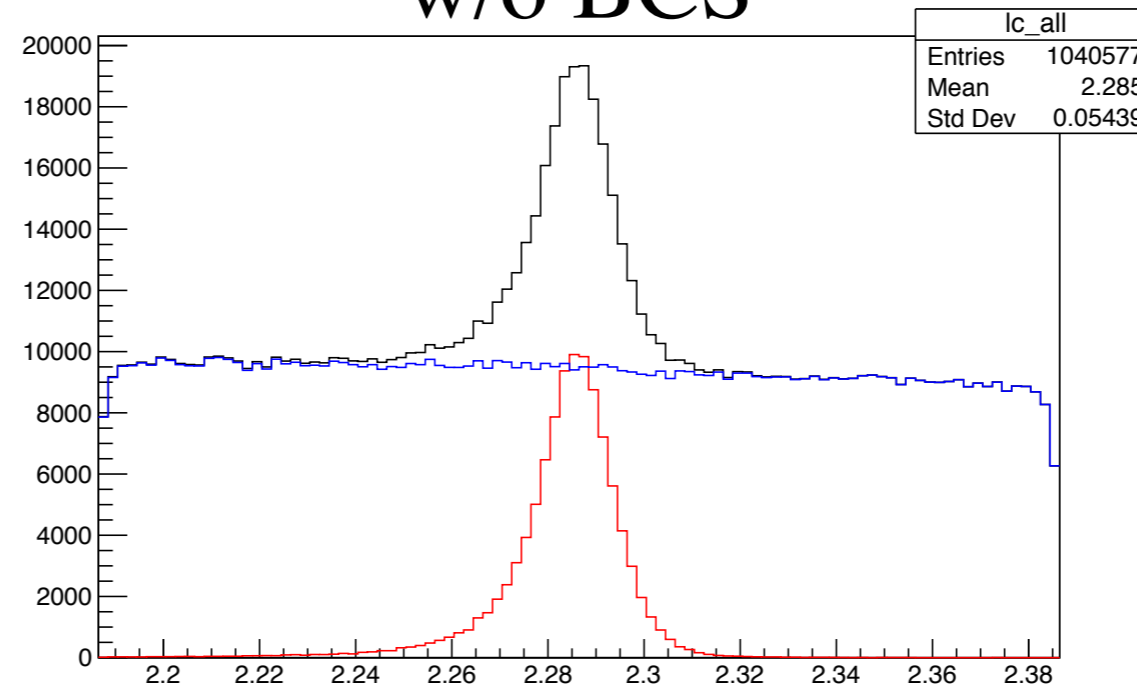


nearest  $\Lambda_c$  mass selection

$\chi^2$  from kfitter

# BCS result

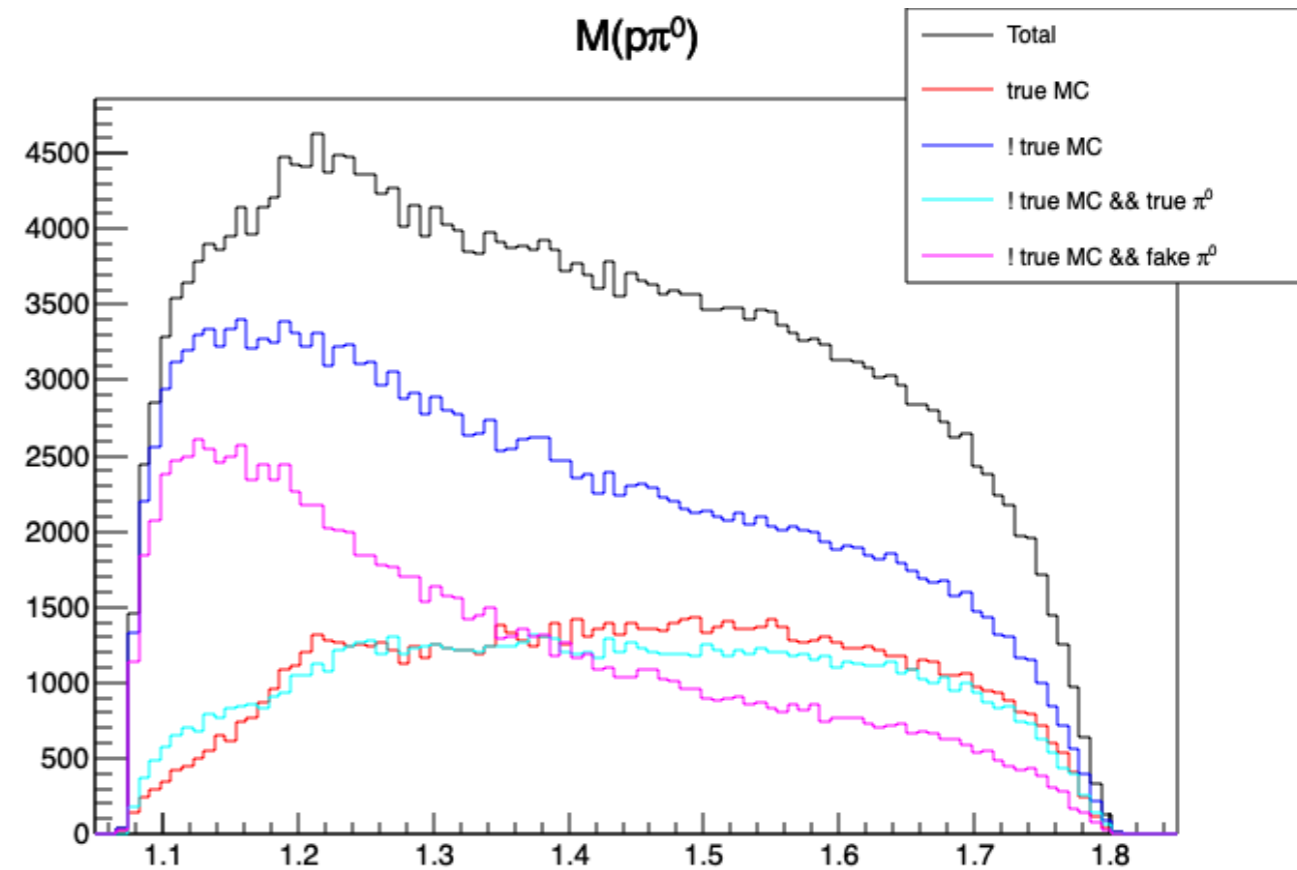
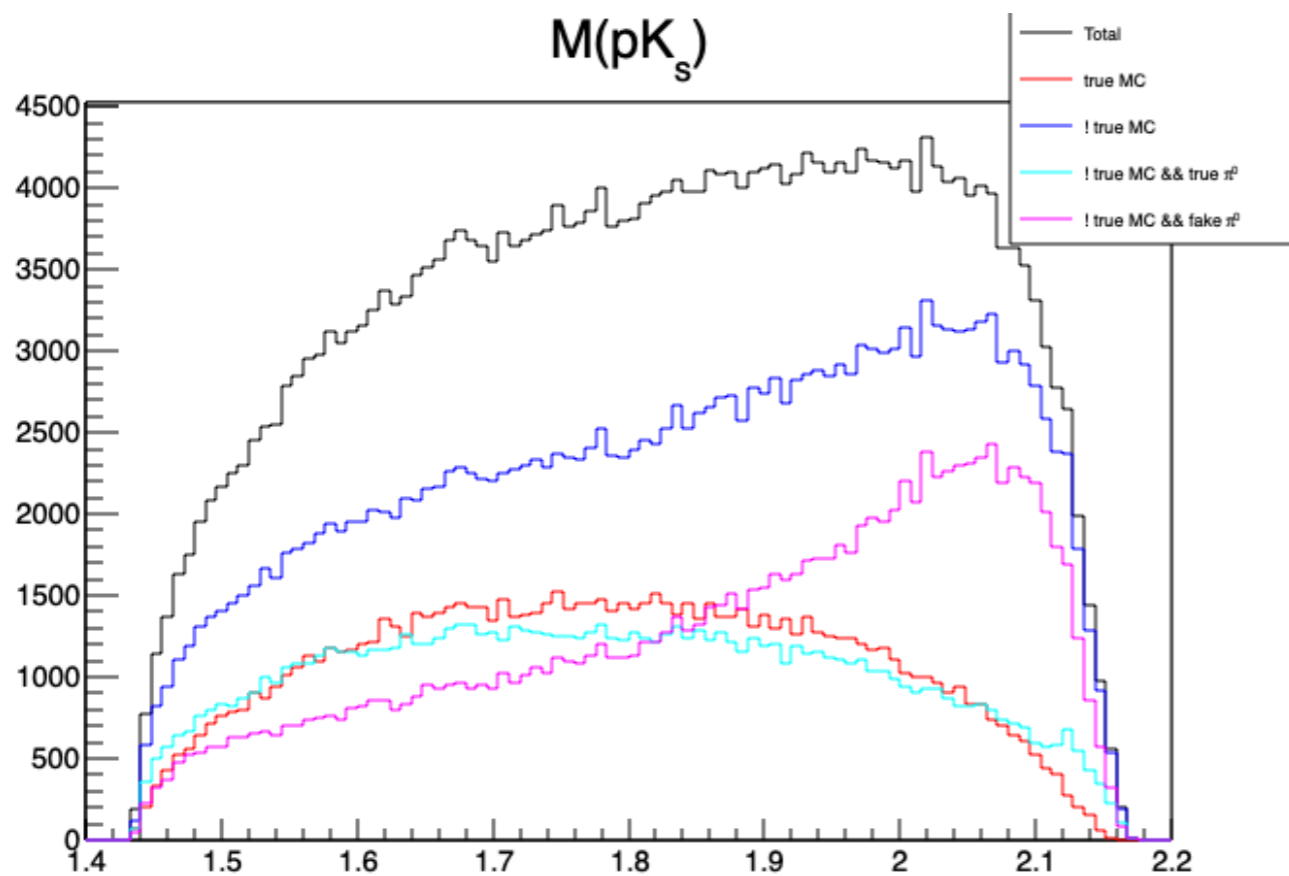
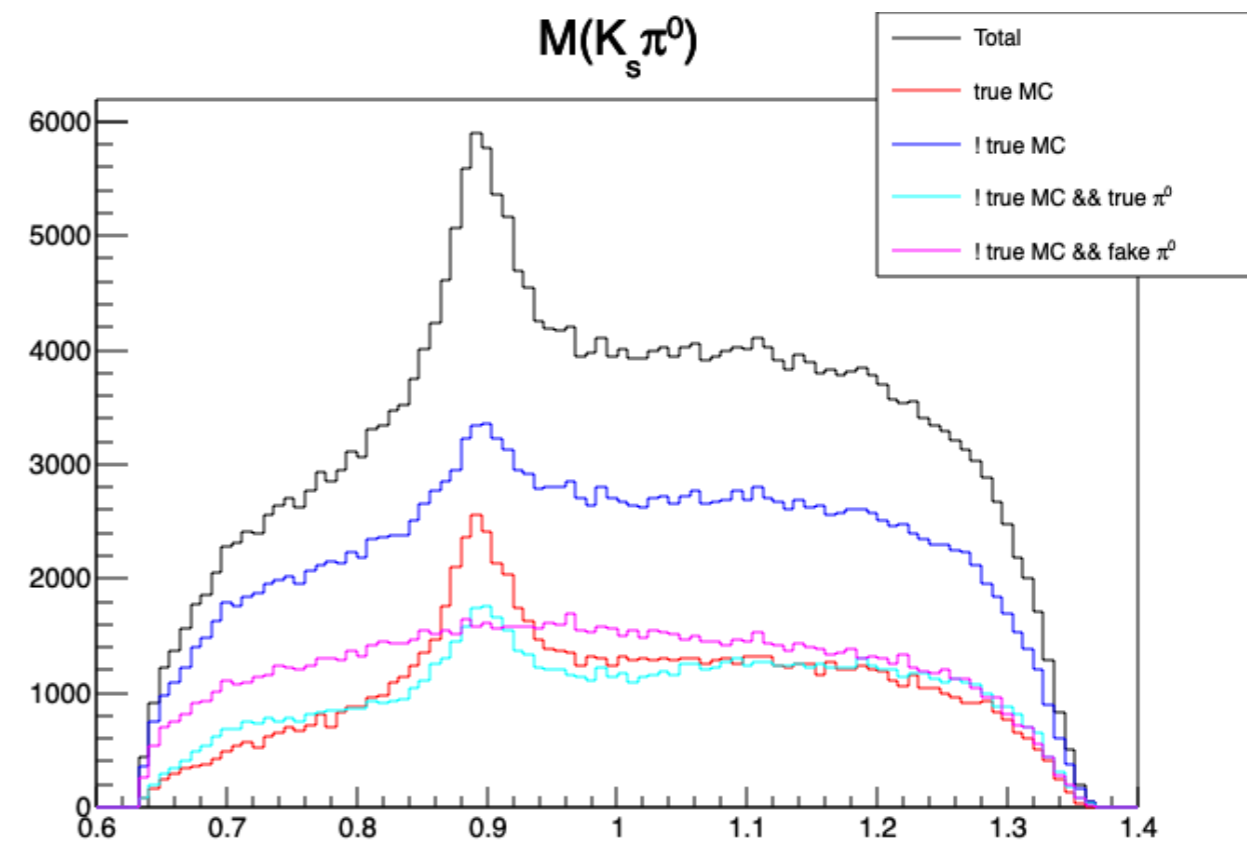
w/o BCS



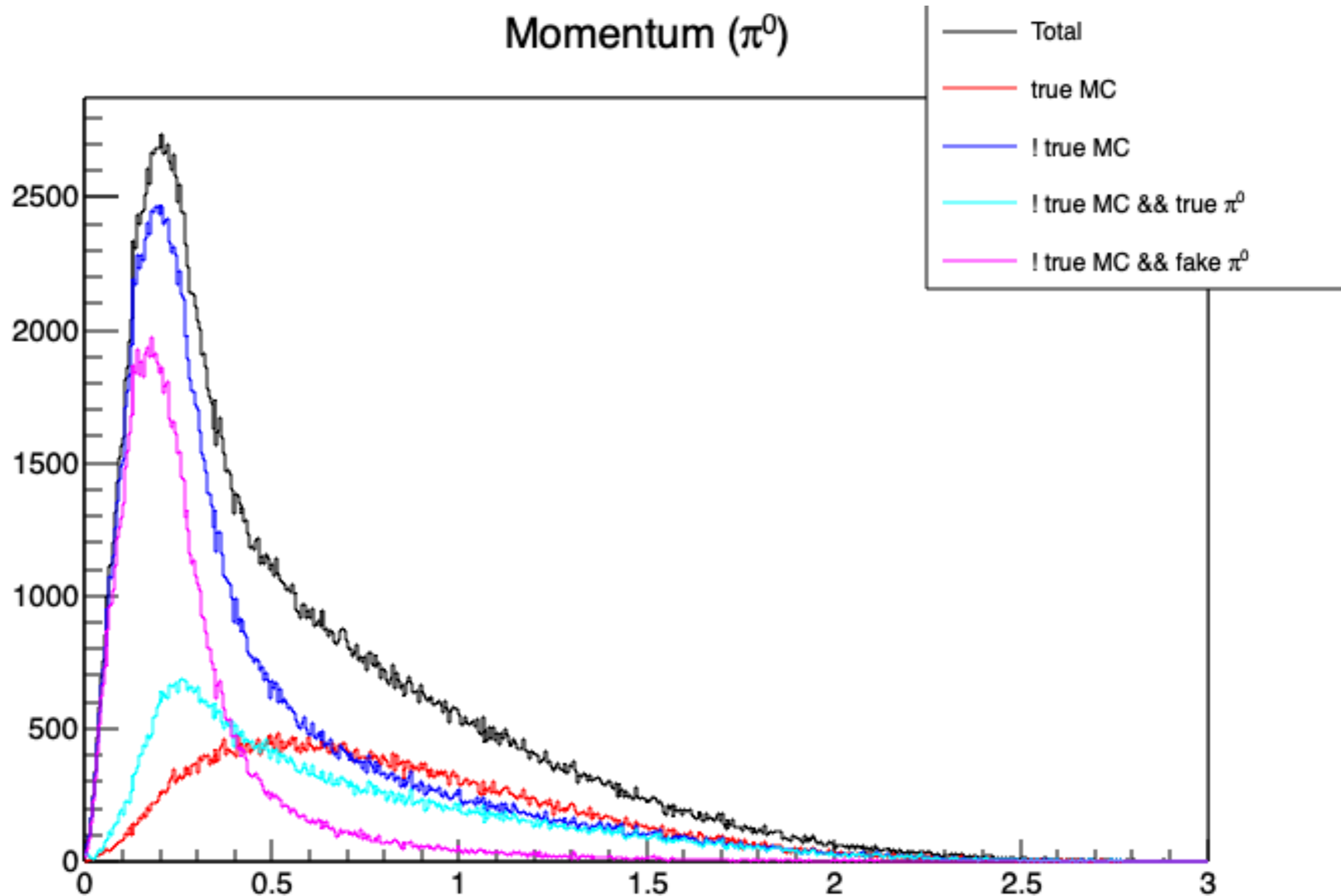
$\chi^2$  from kfitter

kfitter $\chi^2$	Before BCS	After BCS	ratio
Nsig	102469	94449	92.17%
Nbkg	936308	733356	78.32%
Ntot	1040577	827805	79.55%

# Mass distributions from fake pi0

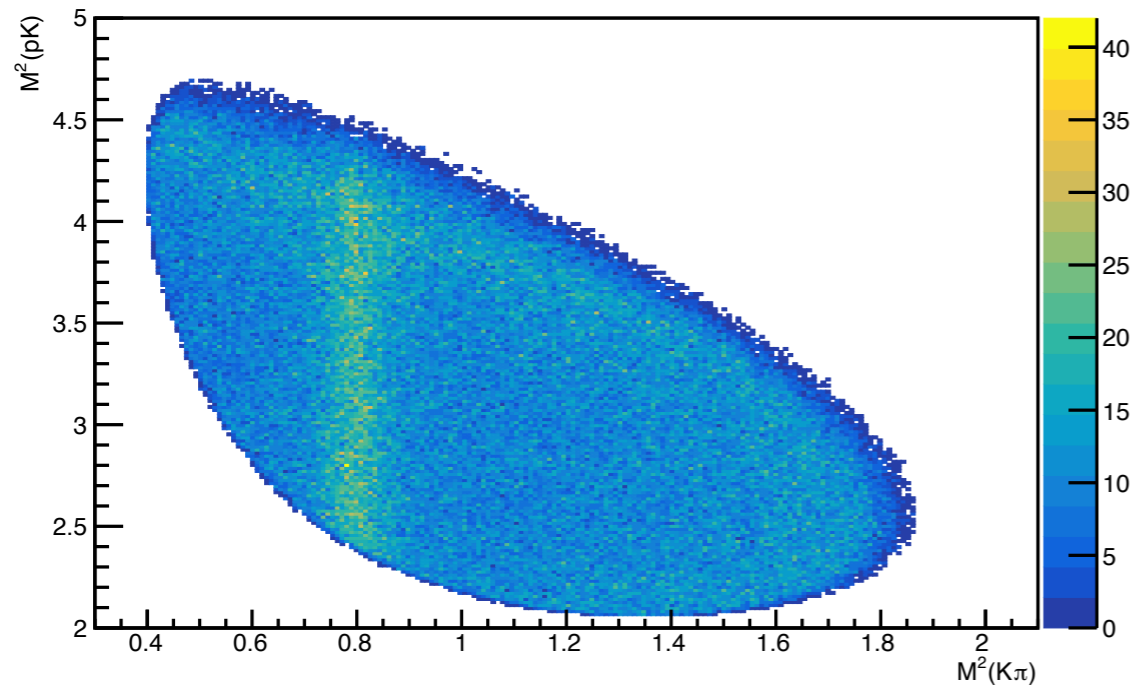


# pi0 momentum distribution

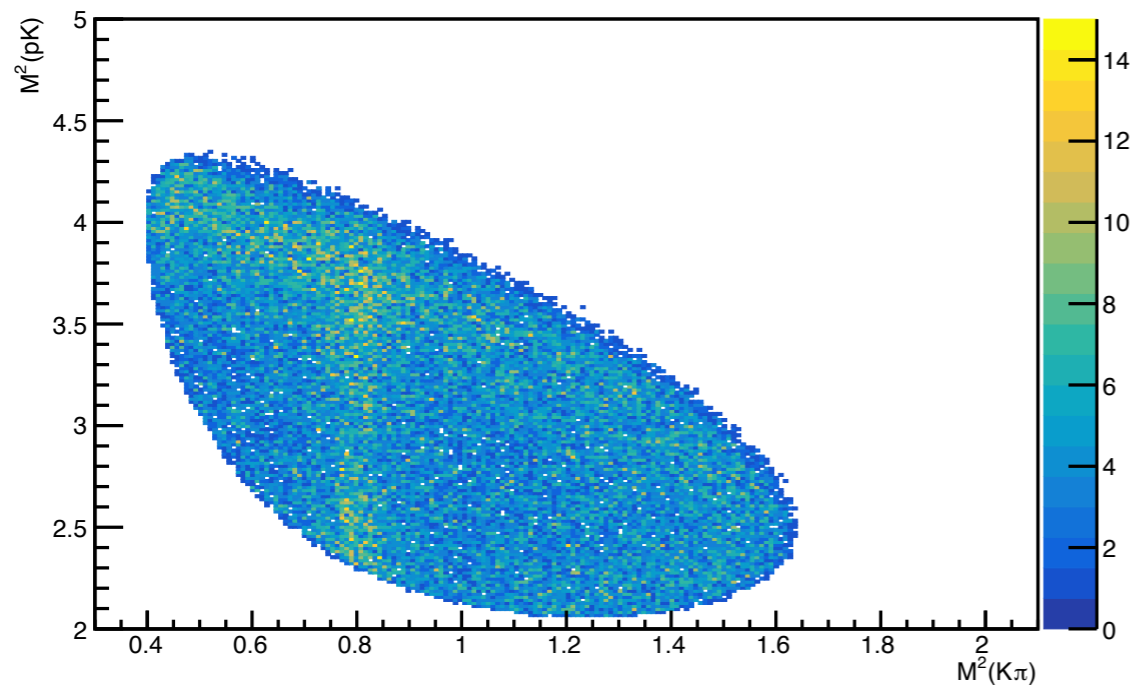


# 0.3 GeV/c $\pi^0$ momentum cut

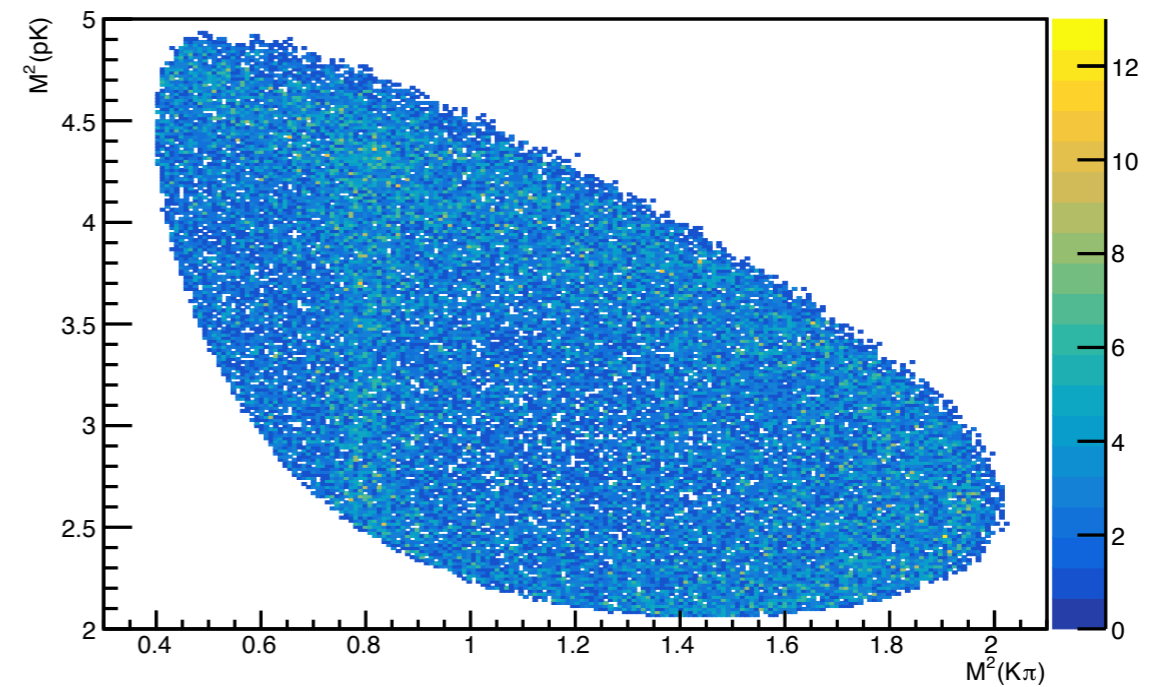
signal region



sideband 1



sideband 2



# Fake $\pi^0$ veto

- Koppenburg cut?
  - BN #665, 666 ~
  - Best  $\gamma$ ,  $\pi^0$ ,  $\eta$  selection

**back up**