

# Update

$B^+ \rightarrow K^+ \tau^- \mu^+$

05 Sep. 2023

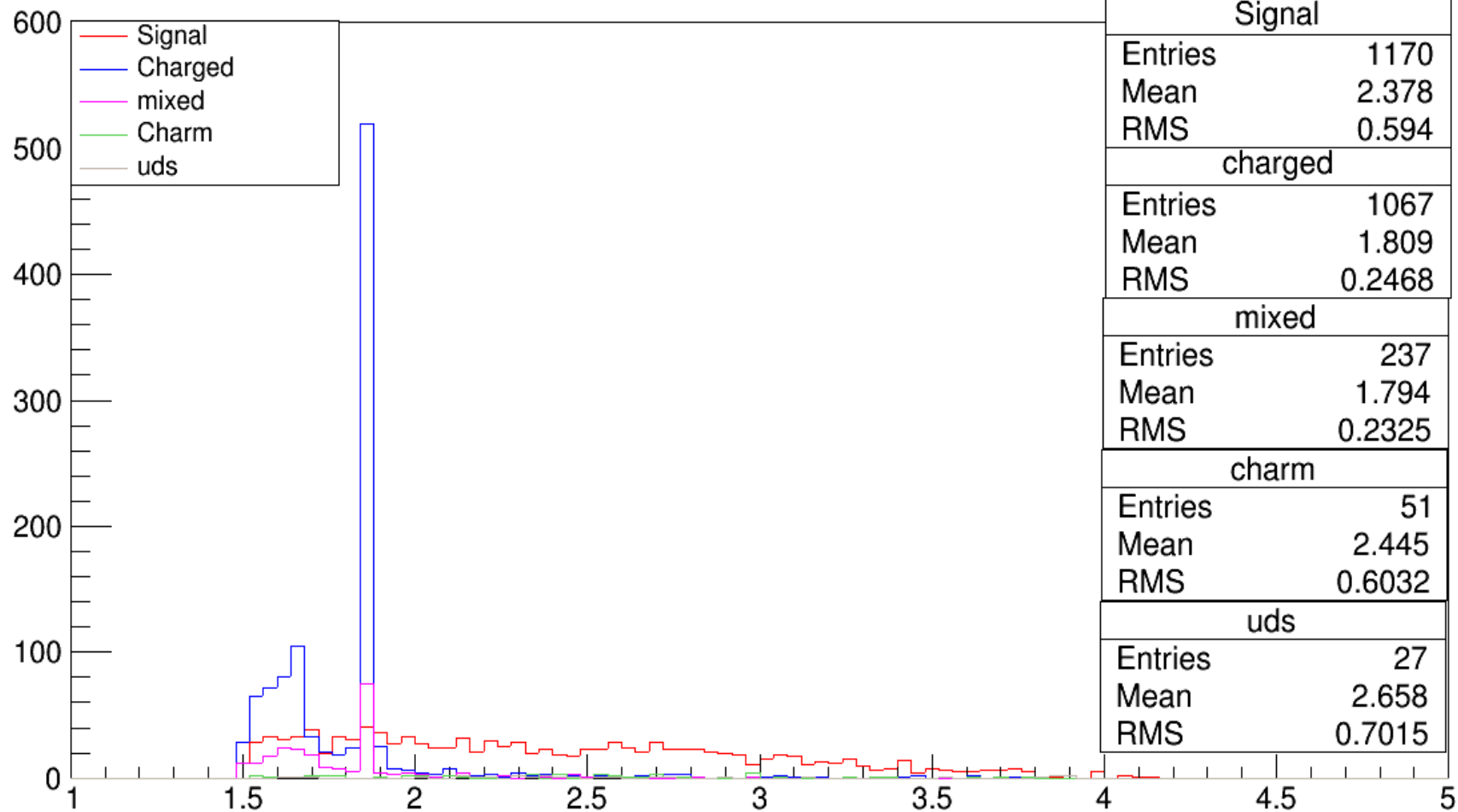
# Cuts used in the reco. program

- $\text{abs}(\sin\_phi) < 1.2$
- $\text{abs}(m\_lpi - 3.1) > 0.015$
- $m\_Kpi > 1.5$
- $\text{abs}(\cos\_pBtag\_Dltag) < 1.2$
- $1.6 < m\_D < 2.4$

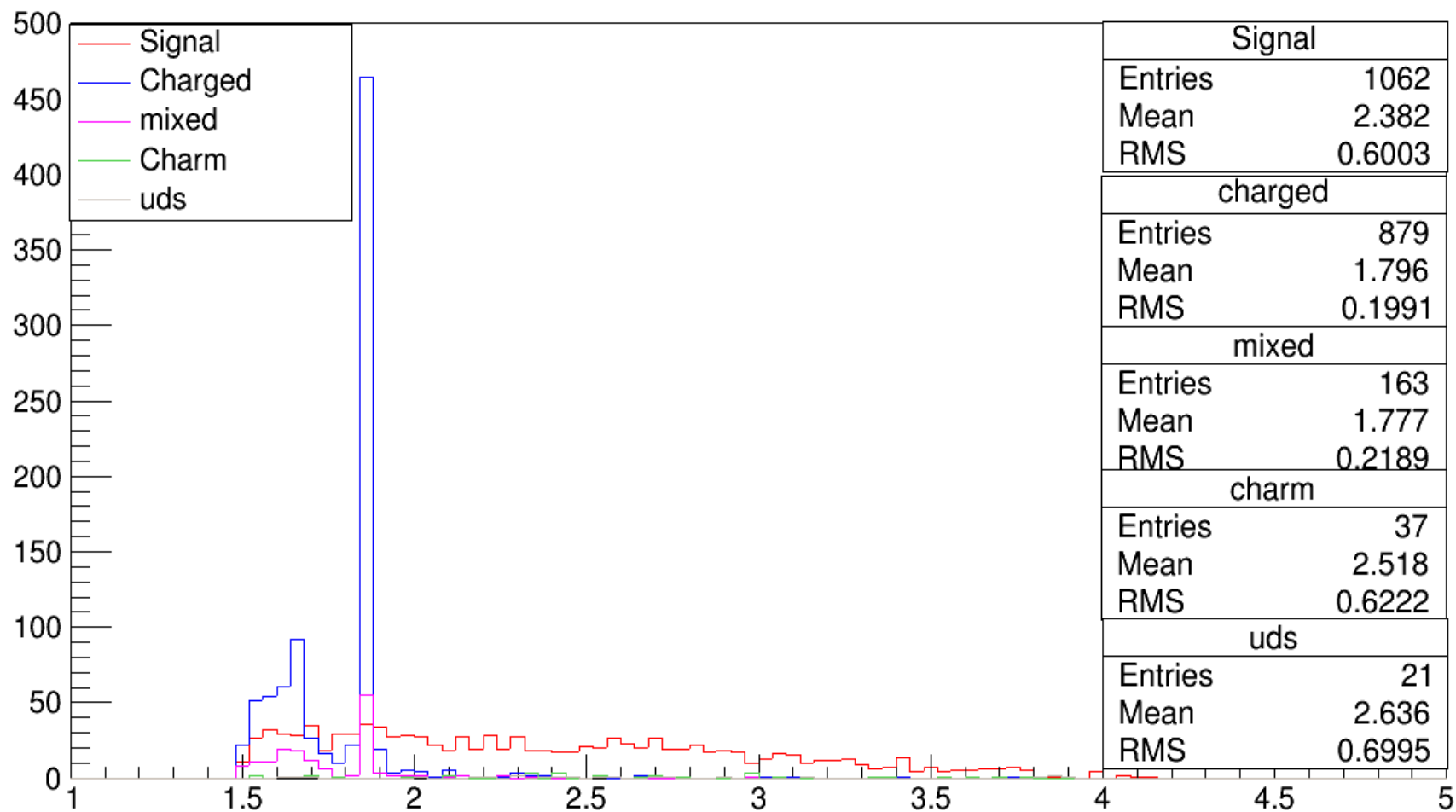
# Cuts on the root level files

- $\text{abs}(m_D - 1.865) < 0.015$
- $\text{Yincl\_rank\_all} == 1$
- $\text{abs}(\text{best\_soln}) < 2$
- $n\text{Lepton} == 2$
- $m_{K\pi} > 2$

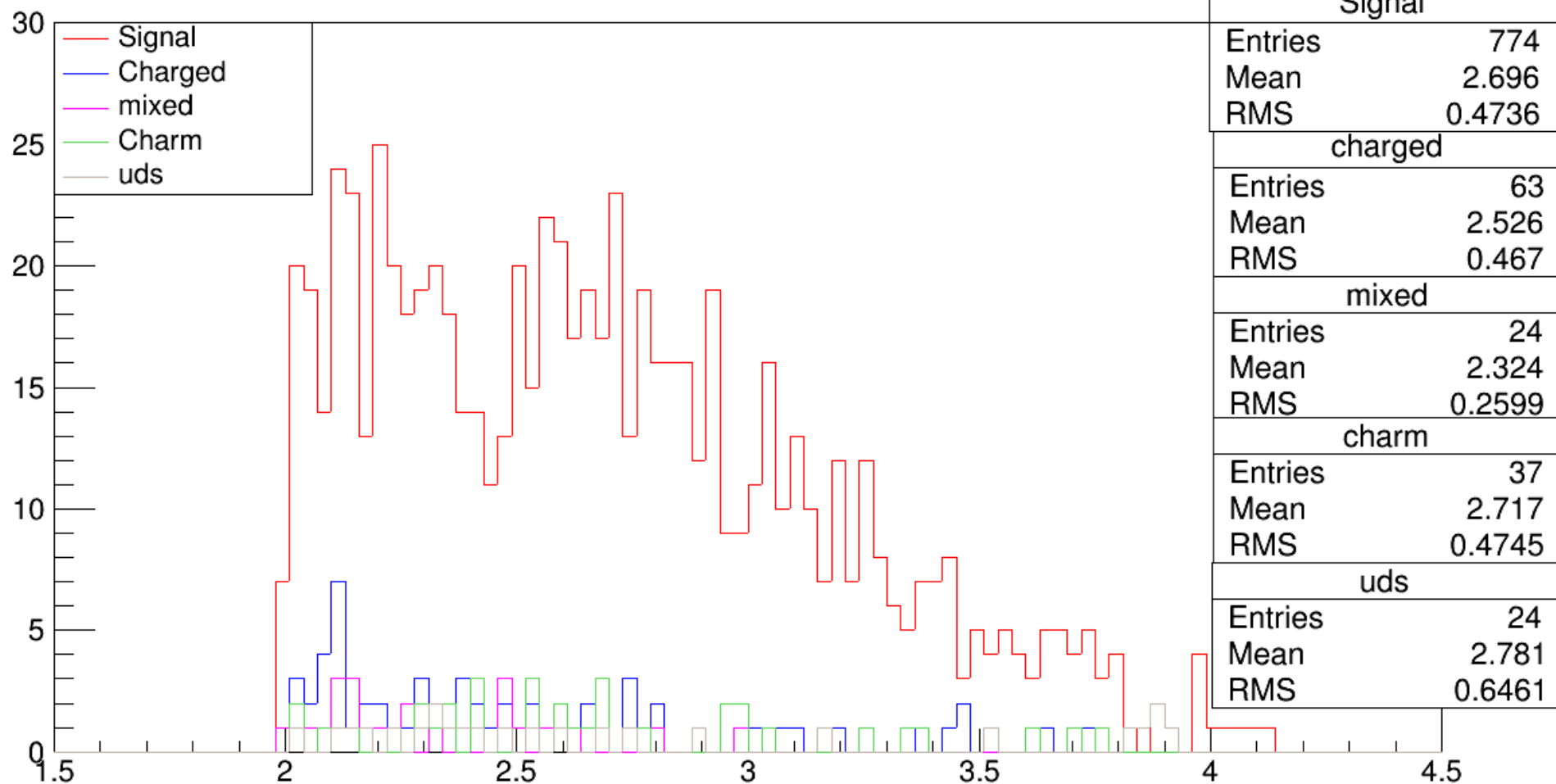
# m\_Kpi without nLeptons cut



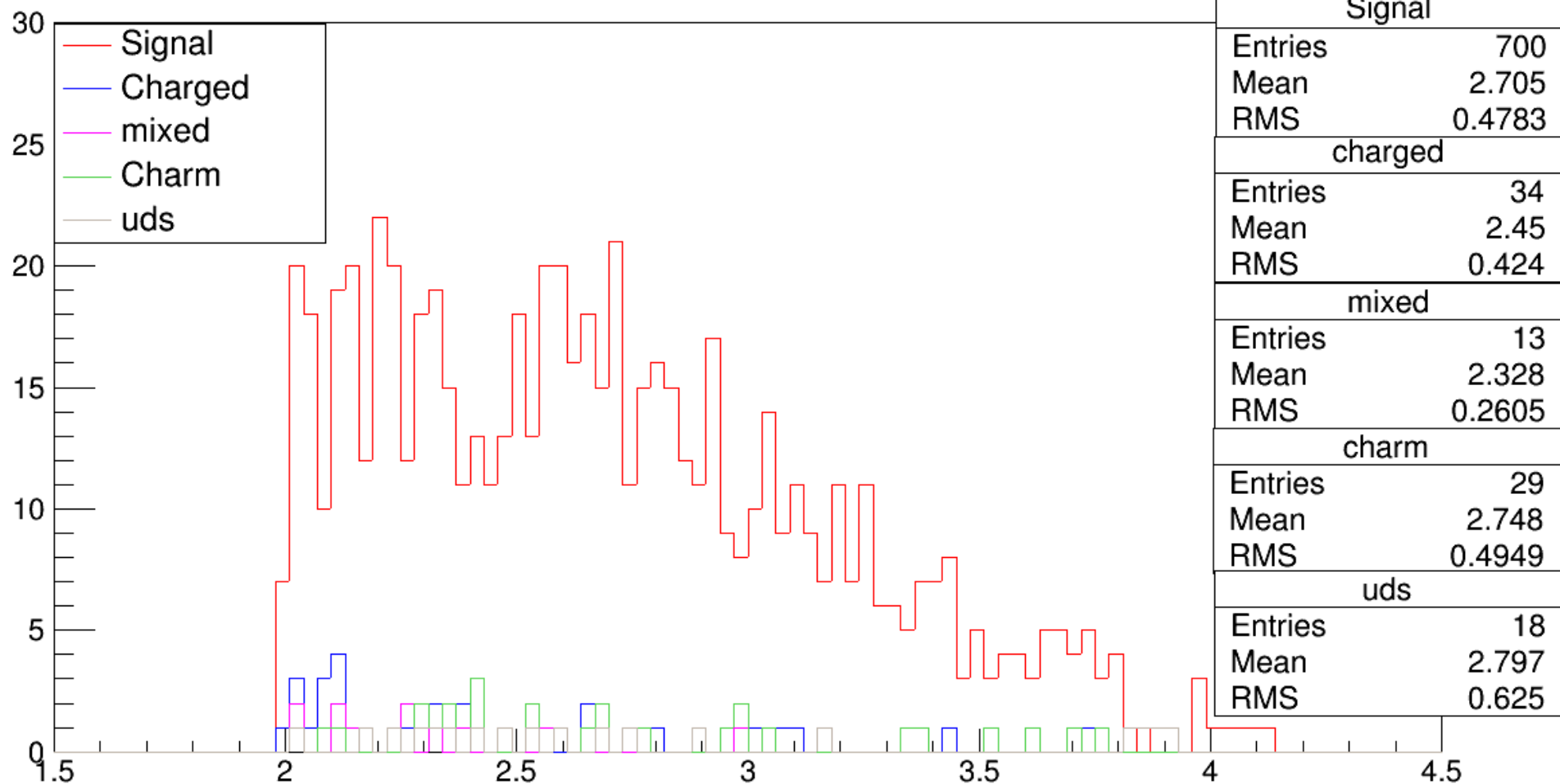
# m\_Kpi with nLeptons cut



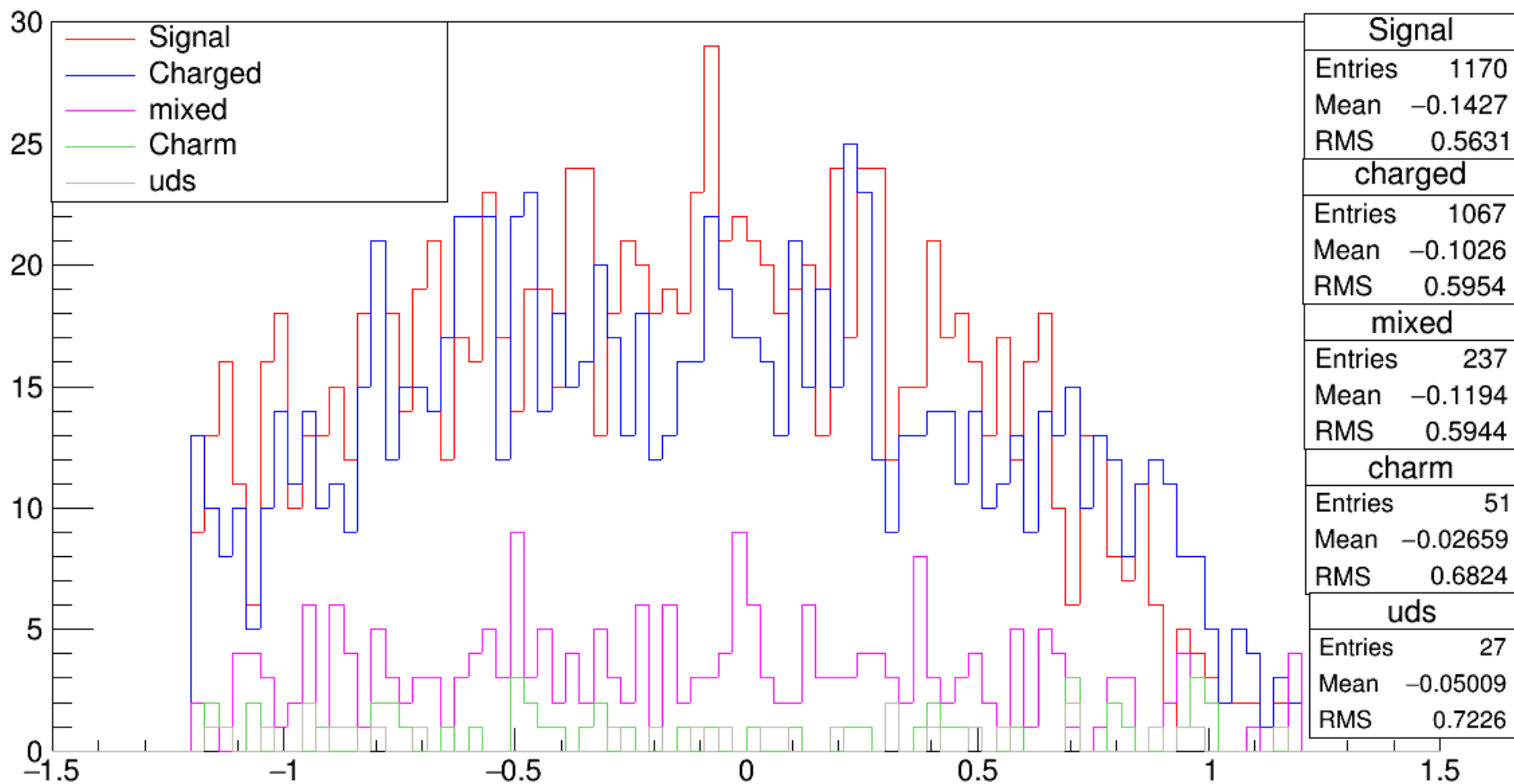
# m\_Kpi without nLeptons cut and with m\_Kpi > 2



# m\_Kpi with nLeptons cut and with m\_Kpi > 2

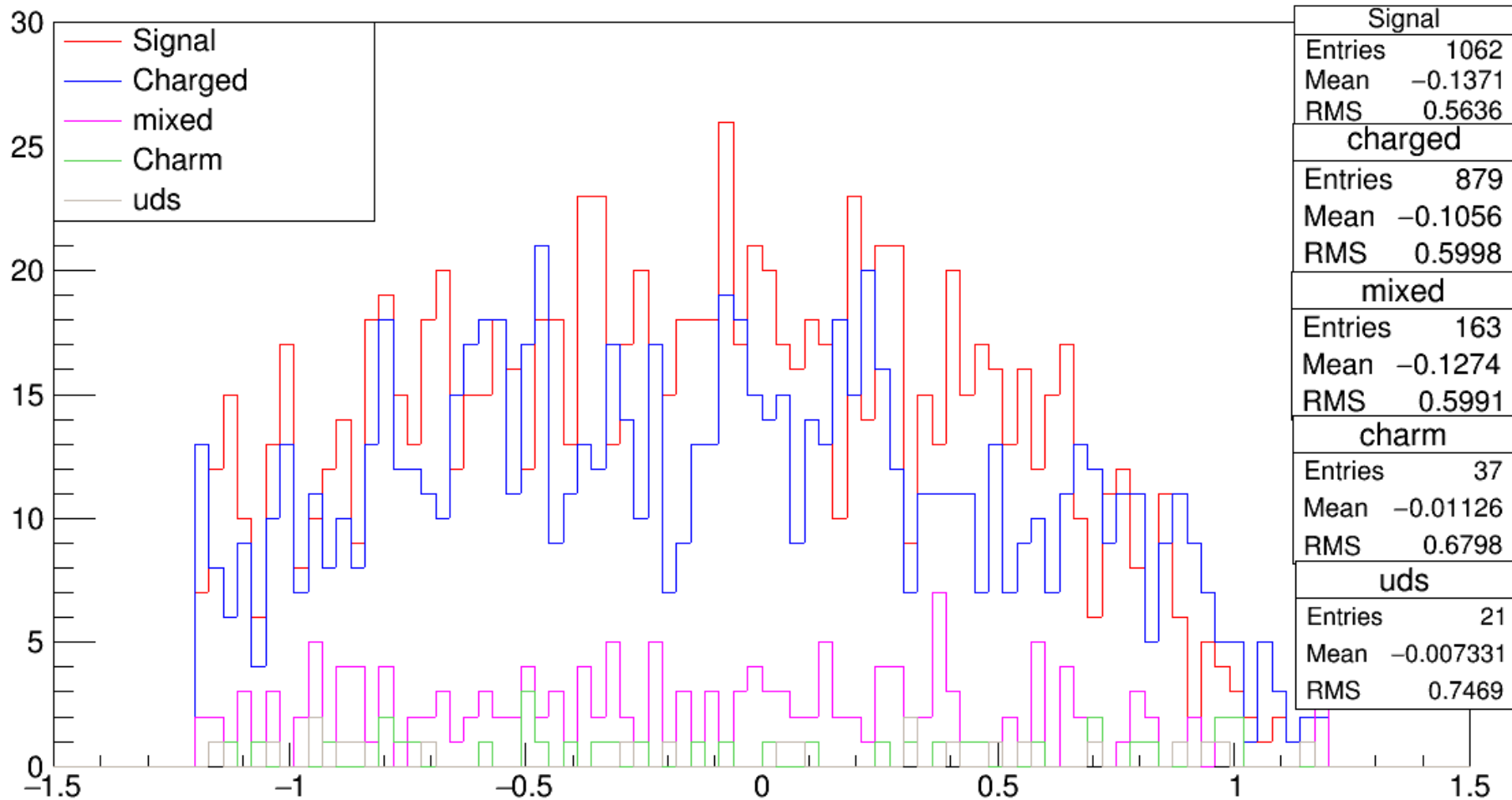


# cos\_pBtag\_Dltag without nLeptons cut and without m\_Kpi>2

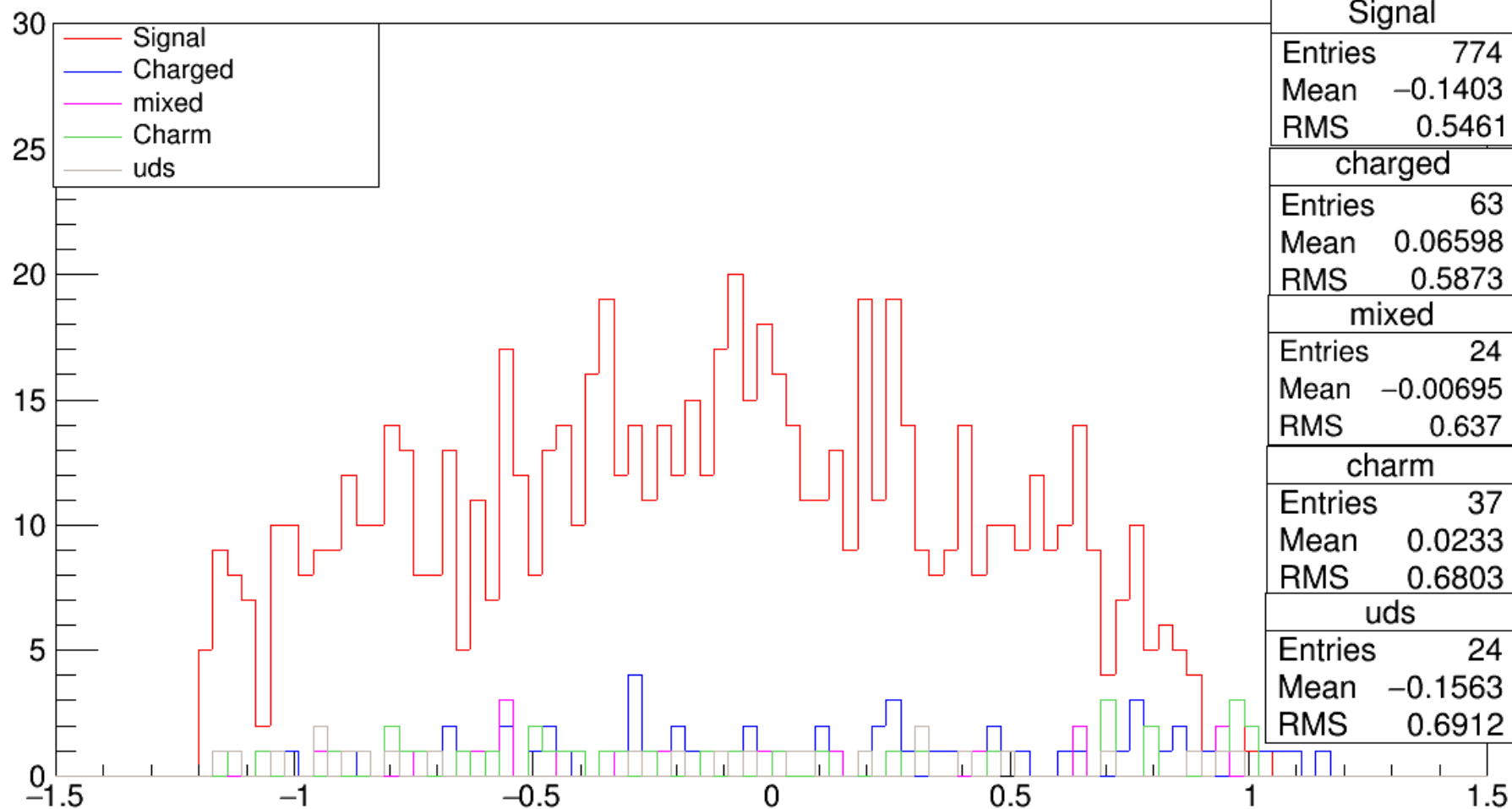




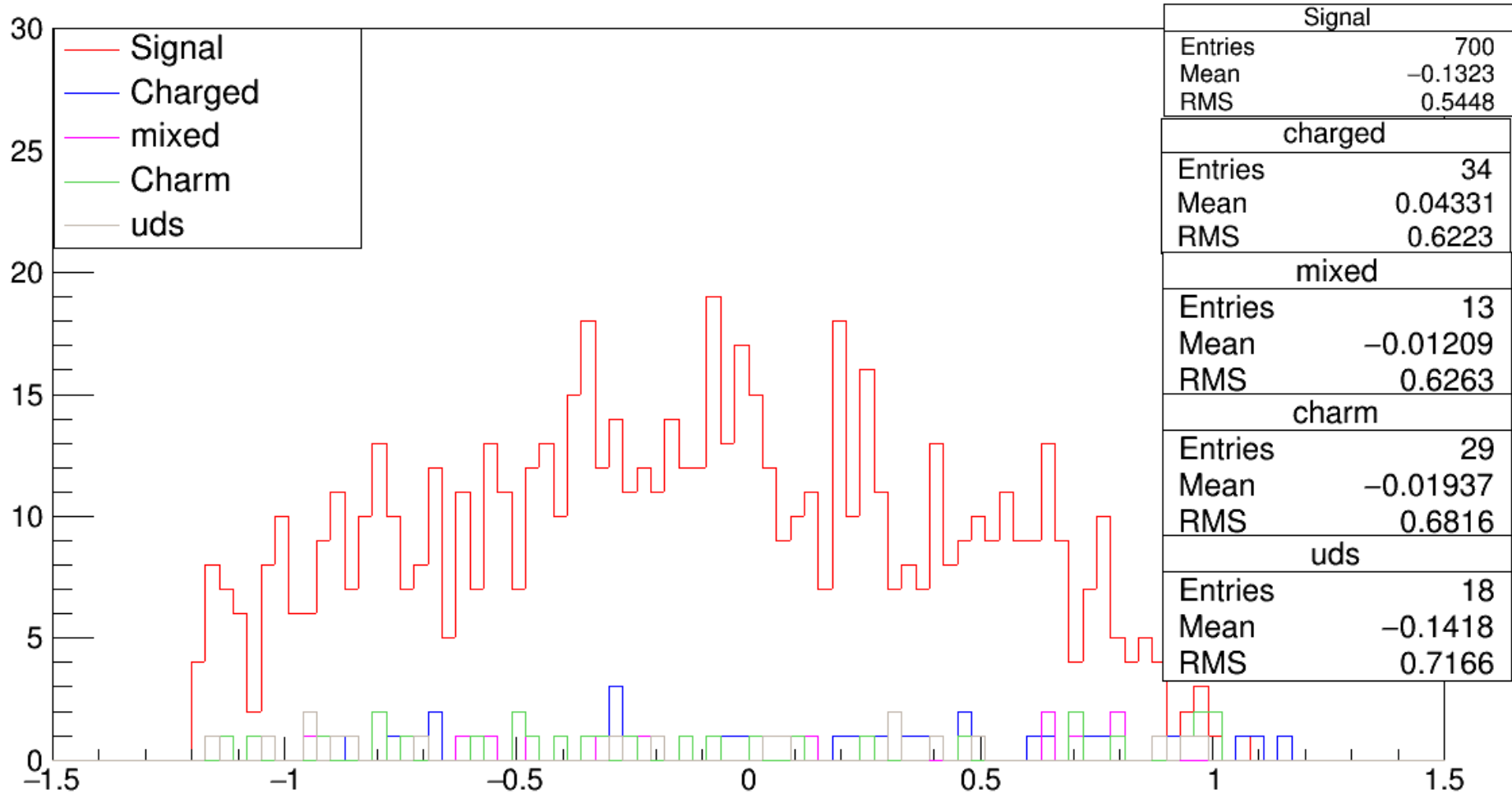
# cos\_pBtag\_Dltag with nLeptons cut and without $m_{K\pi} > 2$



# cos\_pBtag\_Dltag without nLeptons cut and with $m_{K\pi} > 2$



cos\_pBtag\_Dltag with nLeptons cut and with m\_Kpi>2



Thanks