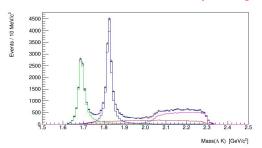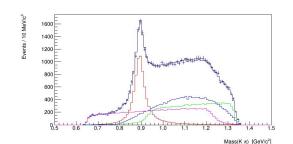# UM-BNL meeting

Feb 08, 2022

Resonant substructure in the decay mode: $\Xi_c^0 \to \Lambda^0 K^- \pi^+$

Updates and plans for this week

- Last time, missed some essential cuts and made some mistakes in the reconstruction of Lambda from proton and pion from Generic MC.

- Made those changes in the steering script and ready to run the jobs.

- Toy MC was produced and fitted using the AmpTools.

Toy MC generated and fitted with AmpTools

- The amplitudes of four resonances were written:

  - $\Xi(1690)^- \to \Lambda\, K^-$
  - $\Xi(1820)^- \to \Lambda\, K^-$
  - $\Sigma(1385)^+ \to \Lambda\, \pi^+$
  - $K^*(890)^0 \to K^-\, \pi^+$

- Now our next plan is to extract the kinematics from final state particles (Generic MC) and fit those events using AmpTools.