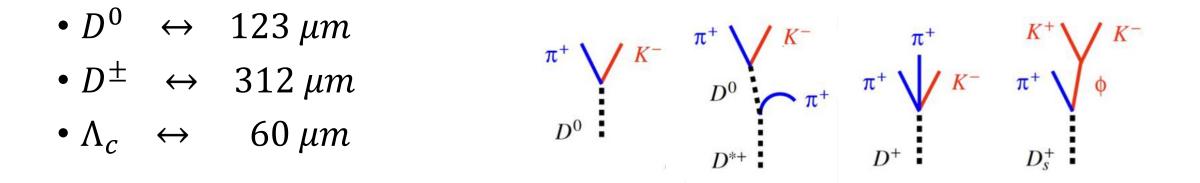
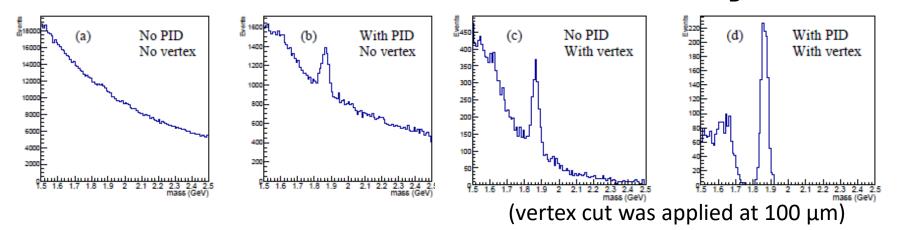
Open Charm Reconstruction



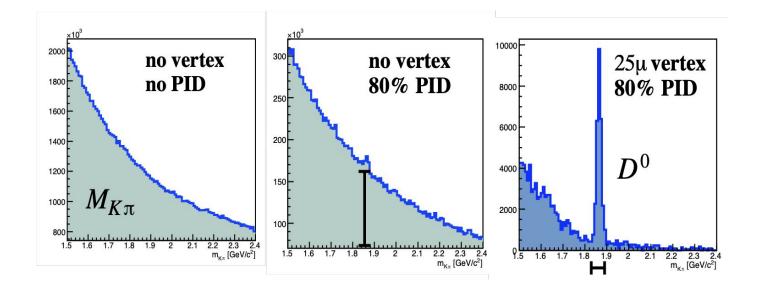
• Early (fast sim) impact studies for PID and vertex cuts on $D^0 \rightarrow K + \pi$ reconstruction (Pythia6, Q² > 10 GeV² and x_B > 0.05):



JPCS 770 (2016) 1, 012042

Open Charm Reconstruction

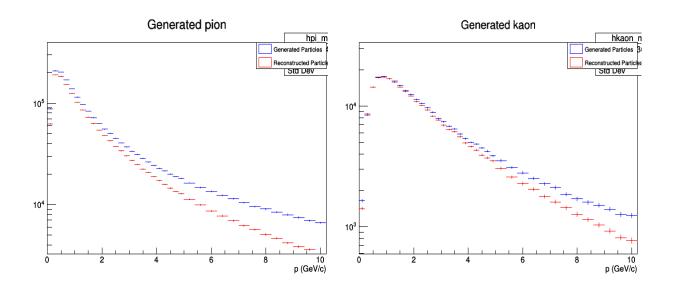
• Last collaboration meeting (Wenqing Fan, 1/11,2023) $D^0 \rightarrow K + \pi$, fast sim (smearing), referencing the same JPCS:

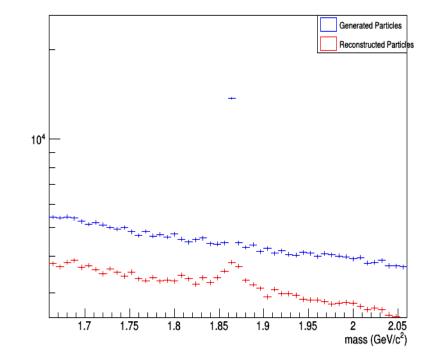


Open Charm Reconstruction

• Where are we now:

- S/B is too bad to start tuning on standard production
- hepMC filtered sample is created; no official MC yet; private version ran by Brian
- First look at eicRecon with ideal PID, no vertex

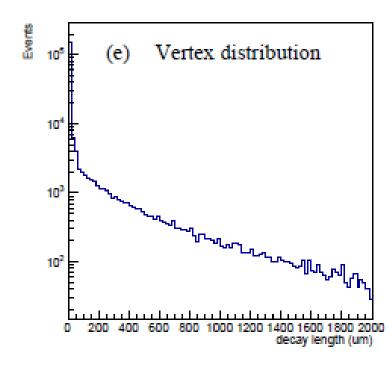




D0 By Enea Prifti (UIC)

Open Charm Reconstruction

• Decay kinematics:



 D^0 decay in the sample from *JPCS* 770 (2016) 1, 012042

