

## Kaon Event Generator

- Planning to collaborate with R. Trotta on general updates to kaon SF event generator (if/as needed)
- Richard has existing splitting function code from Tim embedded in event generator, and Patrick has provided updated reference to kaon splitting functions
- Meeting soon to discuss next steps

## TDIS @ JLab 22GeV

- Recent TDIS at 22GeV studies in general showed an exciting increase in phase space for JLab TDIS experiment impact on meson PDF (extending  $x_{\pi}/K$  range from 0.5 down to 0.1 and the possibility to unlock meson TMD studies vis SIDIS with Sullivan process
- Have not yet discussed with others about plan moving forward since workshop but happy to be involved in next developments wherever I can help most - need to discuss plan and work delegation
- Some example ideas of next steps which come to mind:
  - Study detector modification needed for SIDIS pions and TMD extraction in an experiment (mTPC is not enough)?
  - Create event generator from P. Barry phase space code and run events through geant4 simulation?
  - Another interesting outcome of TDIS at 22GeV was possibility of pion GPDs via DVCS and Sullivan process from M. Defurne - run Sullivan DVCS events from Maxime in simulation of TDIS set up?
  - ...

