MOMENTUM RECONSTRUCTION

- Currently we have a track fitter algorithm which is able to perform momentum reconstruction over particles travelling through ND Gas TPC
- One important role of HpgTPC will be to act as a spectrometer for particles produced in neutrino interactions inside ND LAr
- Two main valid approaches in the momentum reconstruction for $LAr \rightarrow GAr$ particle seem to exist:
 - 1. Use the track fitter algorithm so that it propagates back to the interaction point in LAr
 - 2. Propagate the track fitter algorithm only to some stage in the detector hall and perform the rest of the reconstruction using ND LAr information
- Which of the two approaches should we consider going forward? Are there further options