Kerberos commands:

kinit -f battisti@FNAL.GOV

Password:

ssh -K [battisti@dunegpvmN.fnal.gov](mailto:battisti@dunegpvmN.fnal.gov) (with N= 01 to 15)

Art setup

source /cvmfs/dune.opensciencegrid.org/products/dune/setup\_dune.sh

setup garsoft v02\_05\_00 -q e17:prof

Root Setup

. /cvmfs/larsoft.opensciencegrid.org/products/setup  
setup root v6\_18\_04d -q e19:prof

Edep-sim setup

- source /cvmfs/dune.opensciencegrid.org/products/dune/setup\_dune.sh

- setup geant4 v4\_10\_3\_p03e -q e19:prof

- setup root v6\_18\_04d -q e19:prof

- source setup.sh

- To run the sim: edep-sim -C -g <geo file> -o <output> -p <physics list> -u -e <nevents> <mac file>

Change geometry in a fhicl file

services.Geometry.GDML:"/nd\_hall\_mpd\_only/nd\_hall\_mpd\_only\_60l\_SPY\_v2\_wMuID.gdml"

services.Geometry.ROOT:"/nd\_hall\_mpd\_only/nd\_hall\_mpd\_only\_ECalOctagon\_60l\_SPY\_v2\_wMuID.gdml"

Convert to rootracker

gntpc -i myfile.ghep.root -f t2k\_rootracker

Extend Anajob

physics.analyzers.anatree.WriteMCPTrajectory: true

physics.analyzers.anatree.WriteMCPTrajMomenta: true