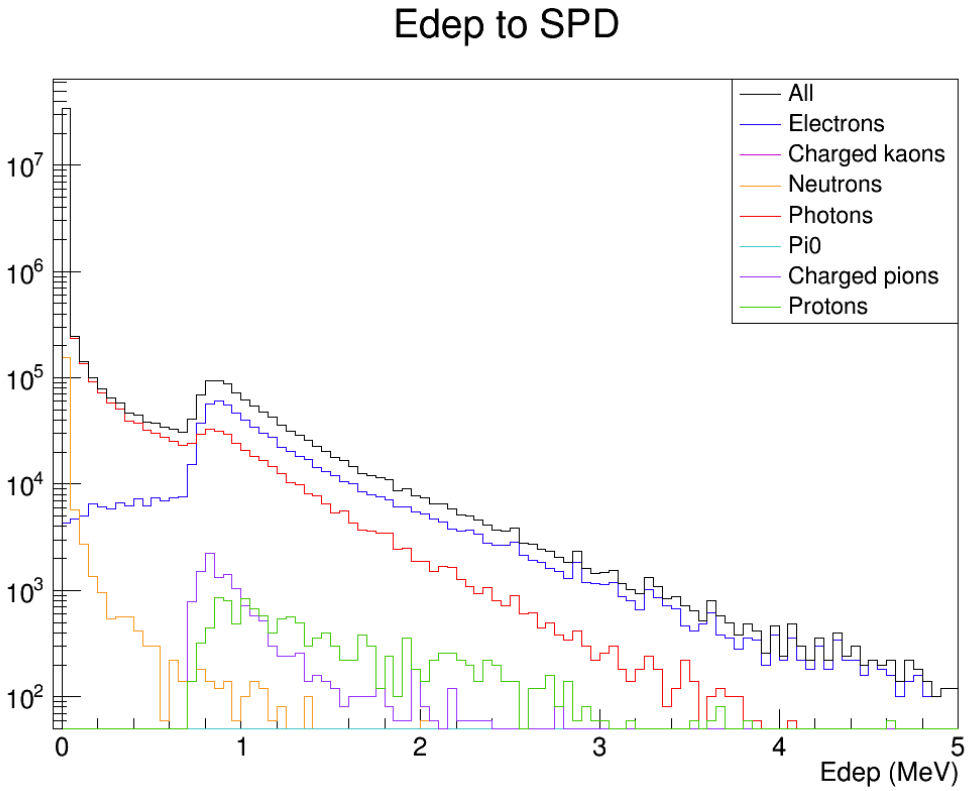
SPD update

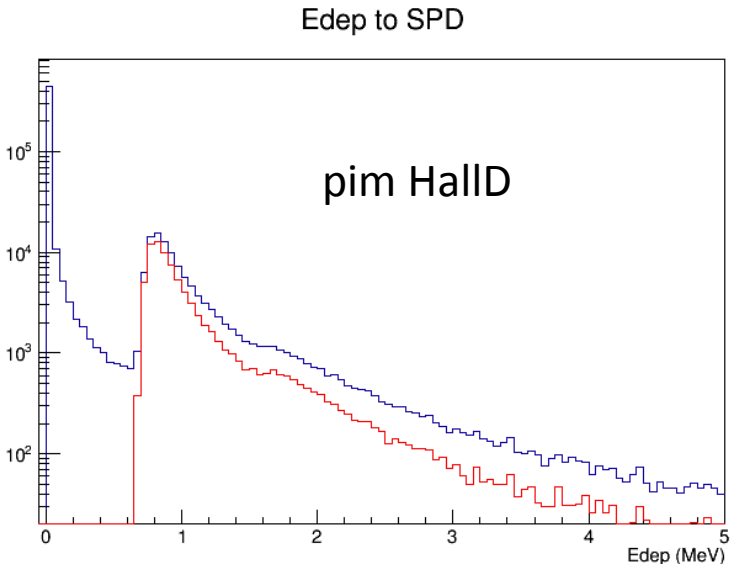
Edep - FASPD



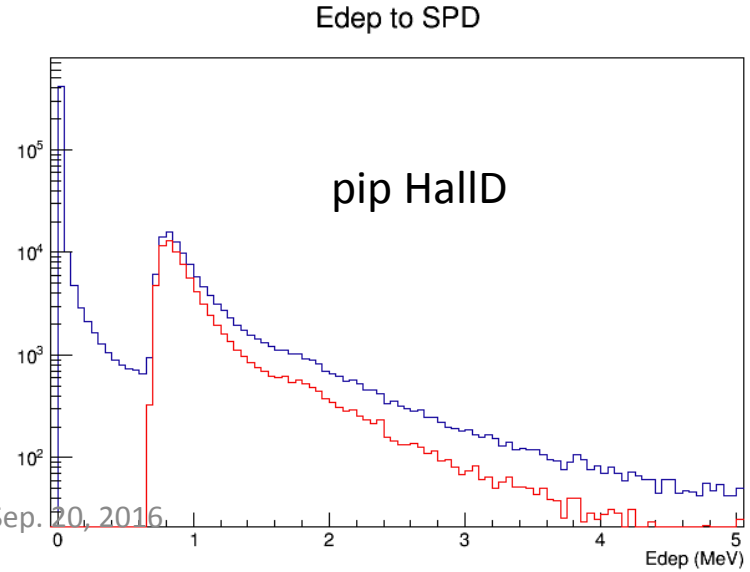
← "PID at the front plane"

- Edep to FASPD from the BeamOnTarget simulation.
- Checked PID going into the FASPD (i.e., checked PID right in front of the SPD).
- Back scattering is not taken into account here.

Charged pions from HallD generator

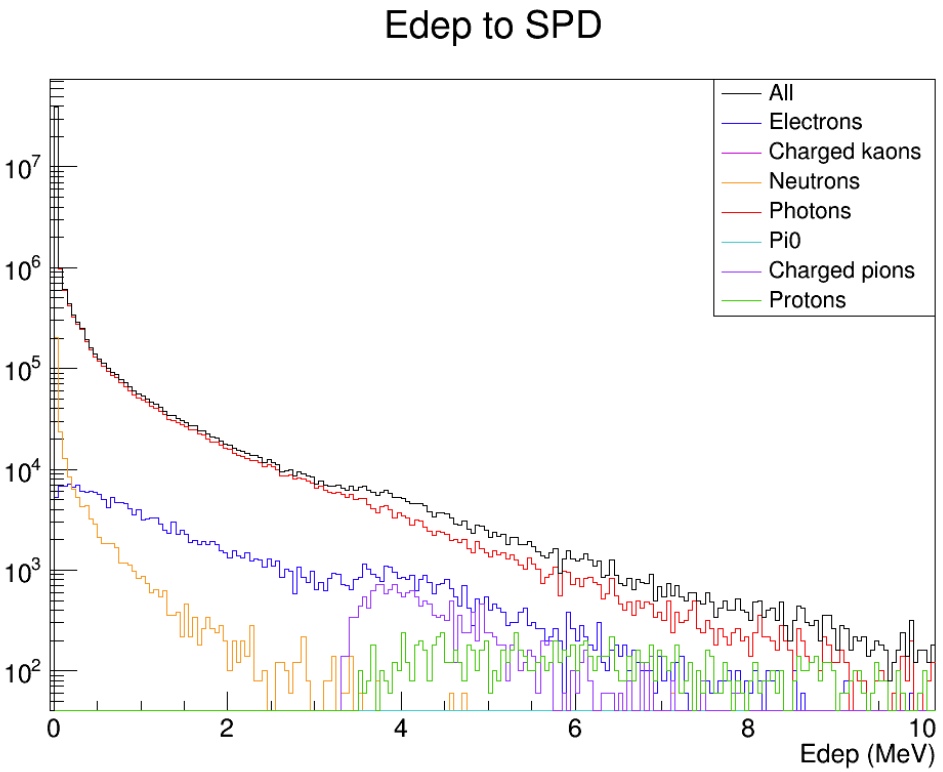


← Total Edep to FASPD
← Only consider pim going into the FASPD (peak at around 0.83 MeV)



← Total Edep to FASPD
← Only consider pip going into the FASPD (peak at around 0.83 MeV)

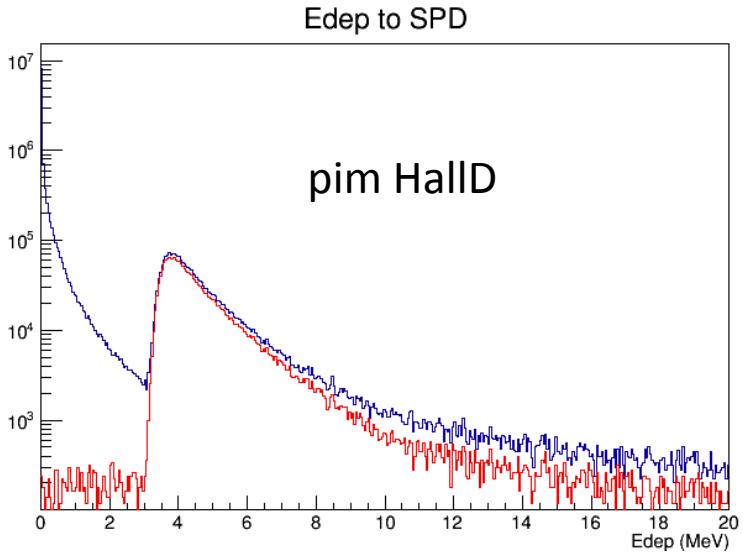
Edep - LASPD



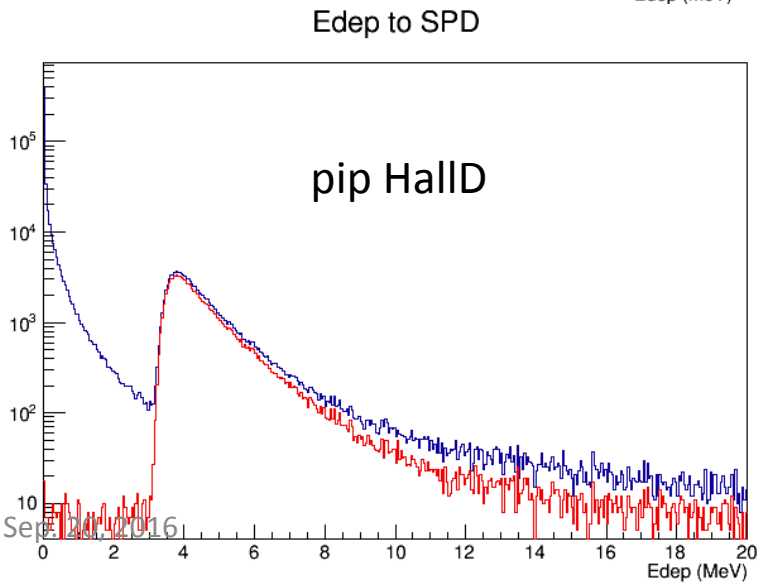
← "PID at the front plane"

- Edep to LASPD from the BeamOnTarget simulation.
- Checked PID going into the LASPD (i.e., checked PID right in front of the SPD).
- Back scattering is not taken into account here.

Charged pions from HallD generator

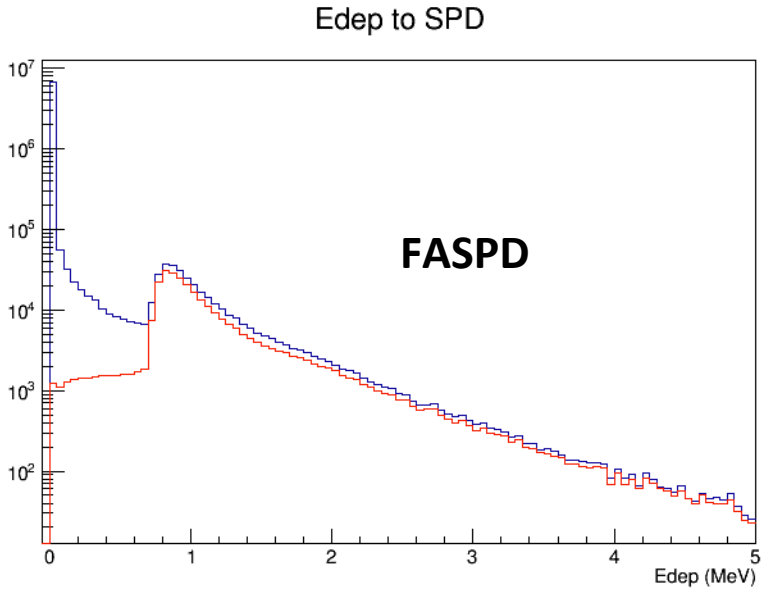


← Total Edep to LASPD
← Only consider pim going into the LASPD (peak at around 3.9 MeV)



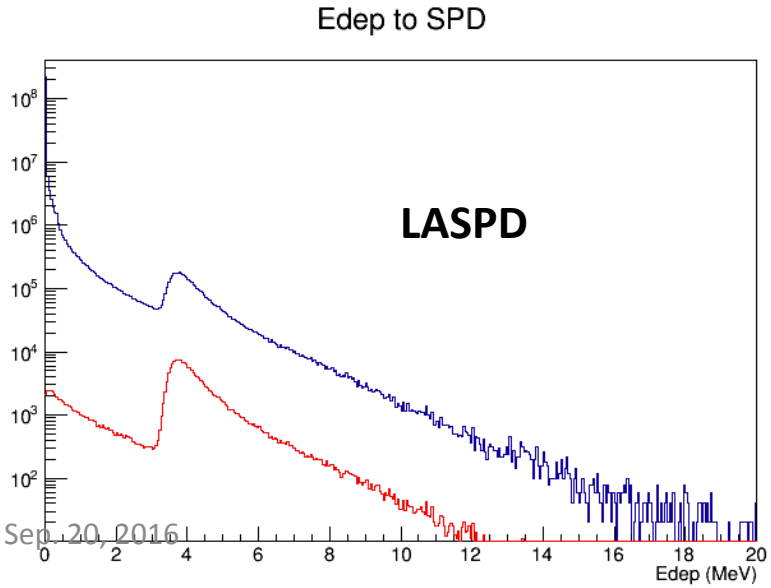
← Total Edep to LASPD
← Only consider pip going into the LASPD (peak at around 3.9 MeV)

Checking electrons



Used this electron MC file below:
(background_solid_SIDIS_He3_dirty_even_e_0.603538e6.root)

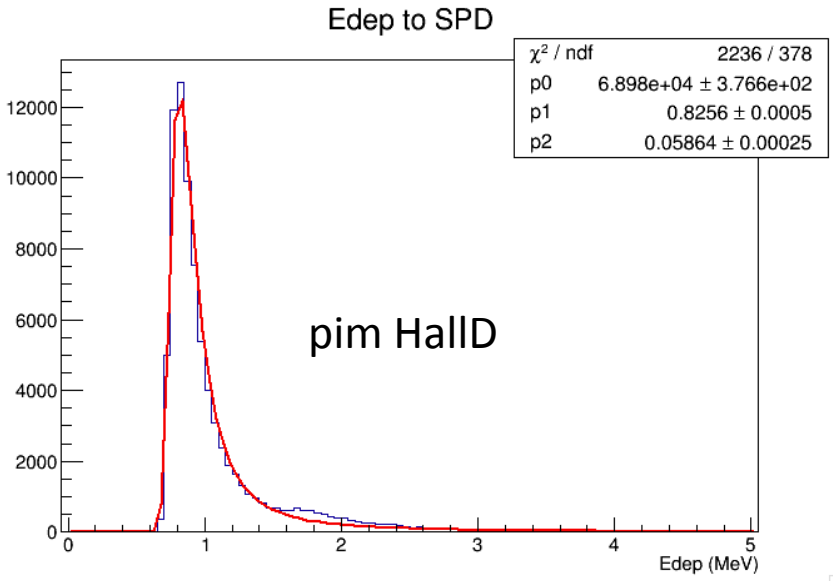
← Total Edep to FASPD
← Only consider electrons going into the FASPD

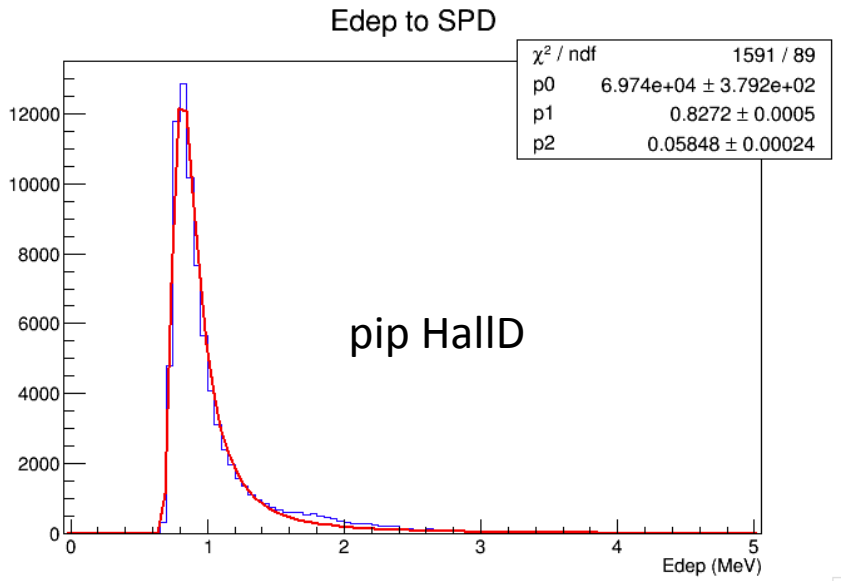


← Total Edep to LASPD
← Only consider electrons going into the LASPD

backup

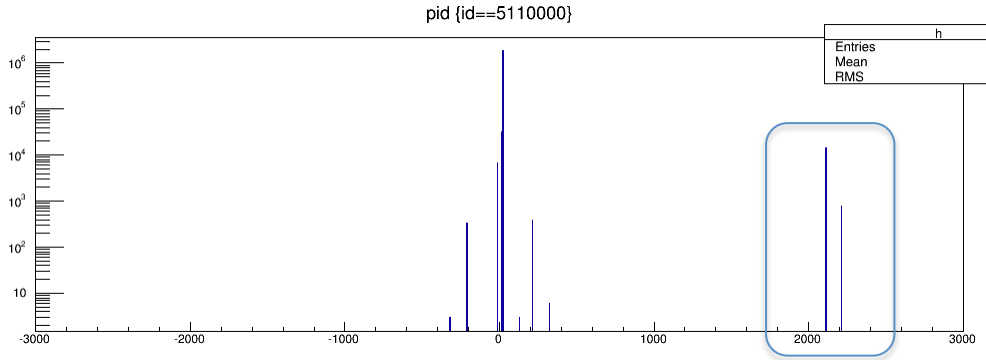
Charged pions from HallD generator



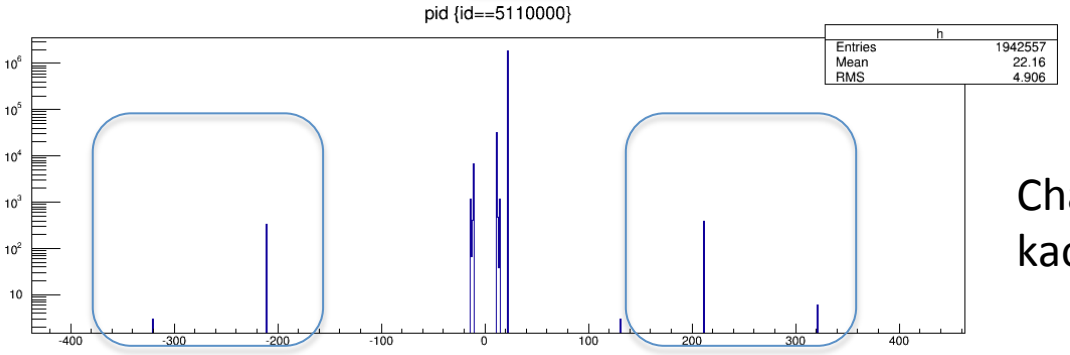


- Edep to FASPD from pip and pim HallD generator.
- Only consider the charged pions going into the FASPD (i.e., checked PID right in front of the SPD).
- Peak around at 0.83 MeV

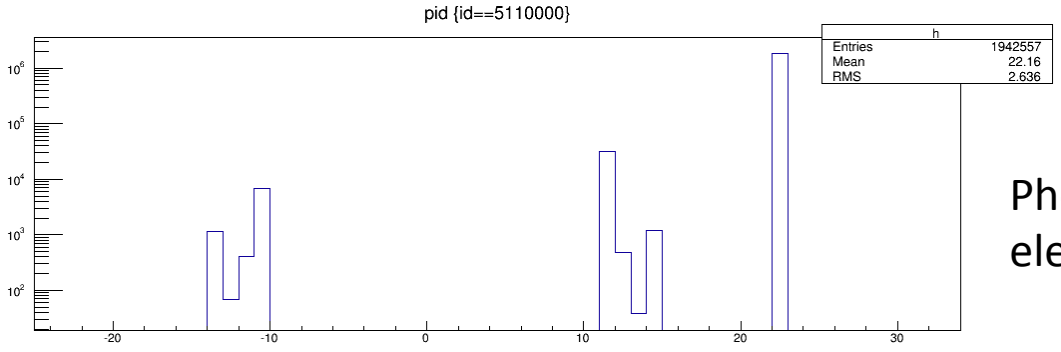
BeamOnTarget



neutron, proton



Charged/neutral pions, kaons



Photon, electron