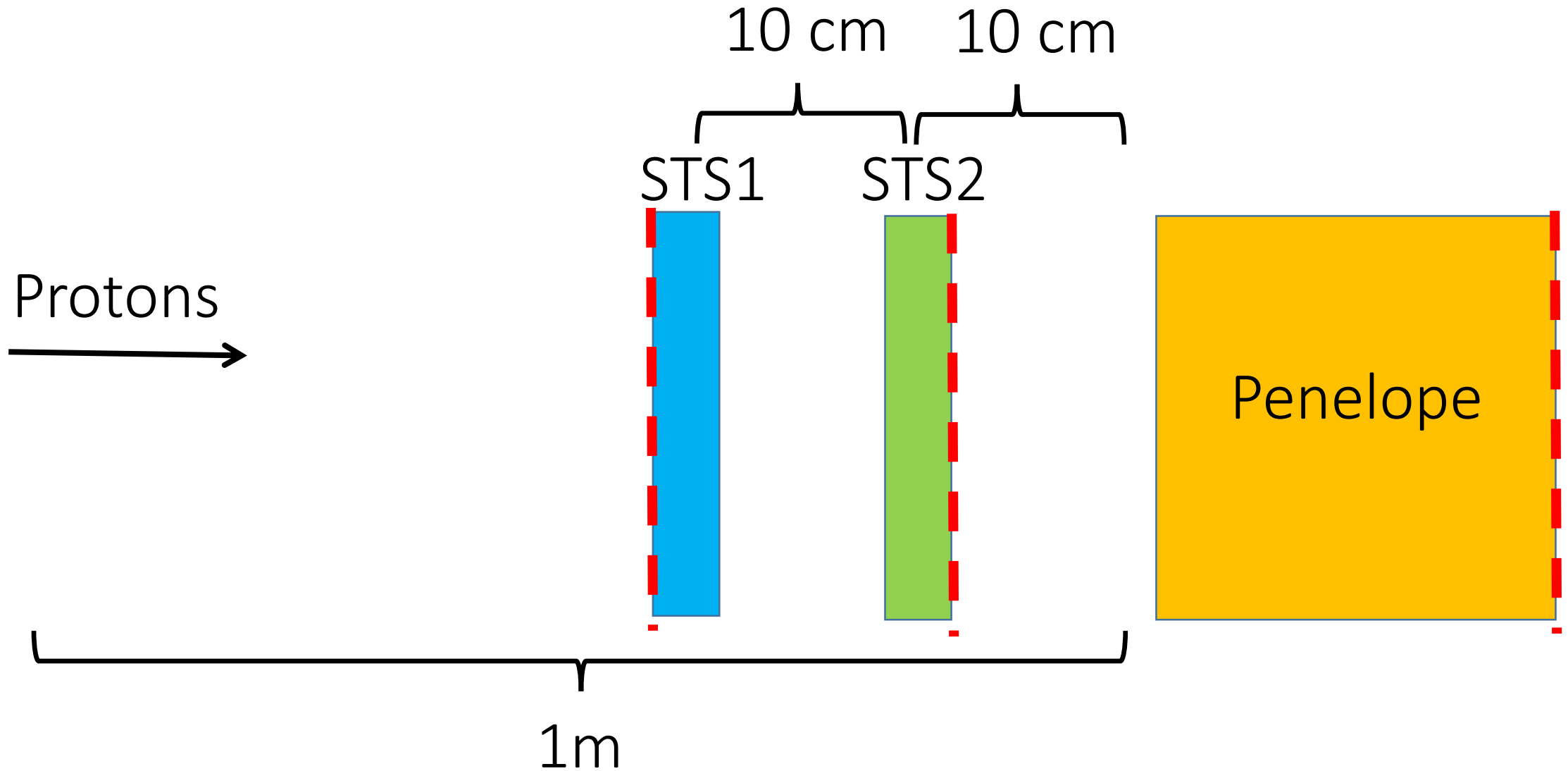


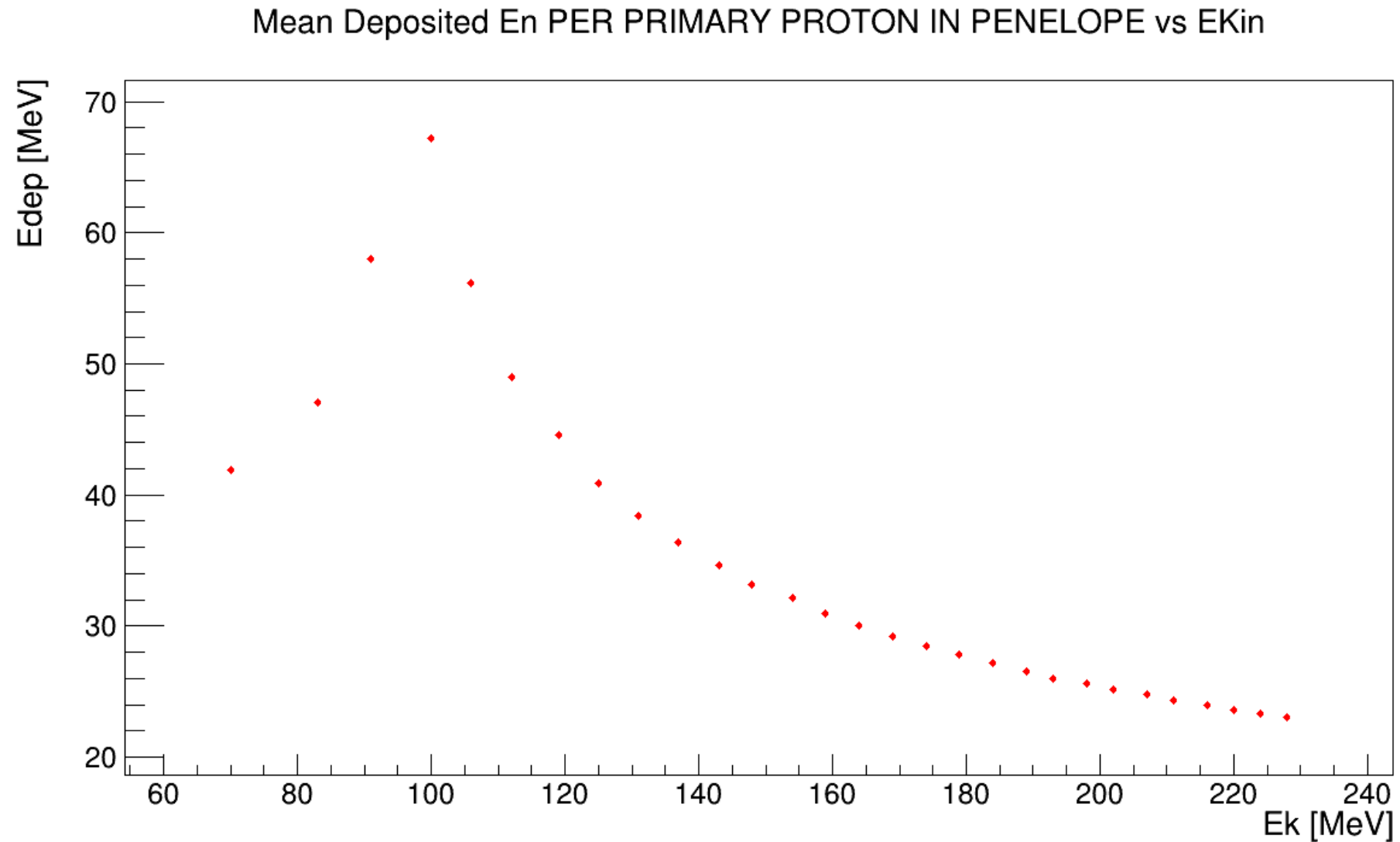
# Preparing for the TIFPA beam test – FLUKA simulations

VALENTINA Giacometti

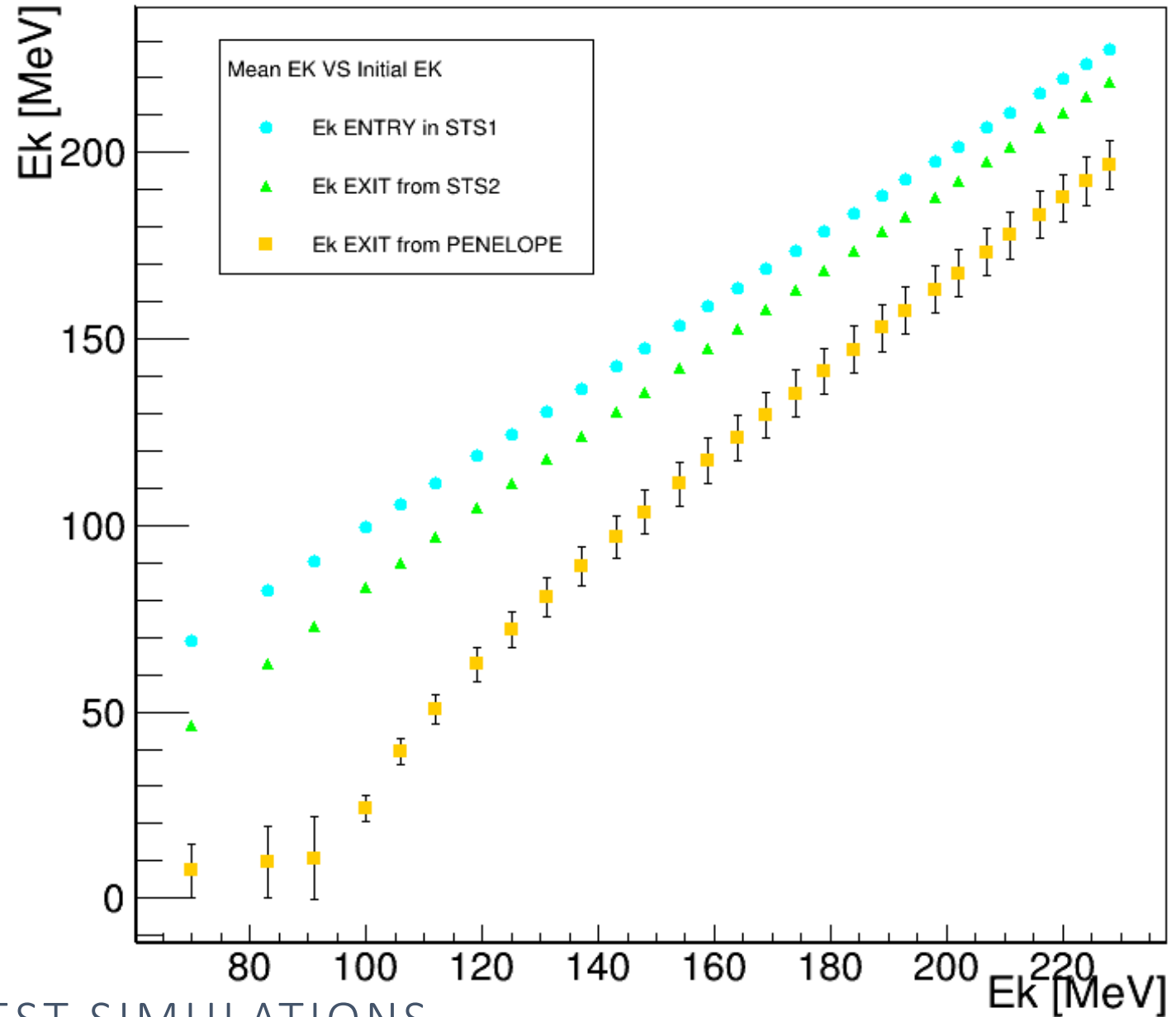
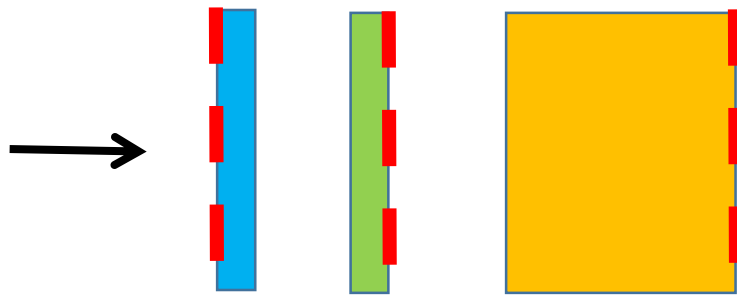
# SIMULATION SETUP



# SOME RESULTS: mean deposited energy VS initial energy

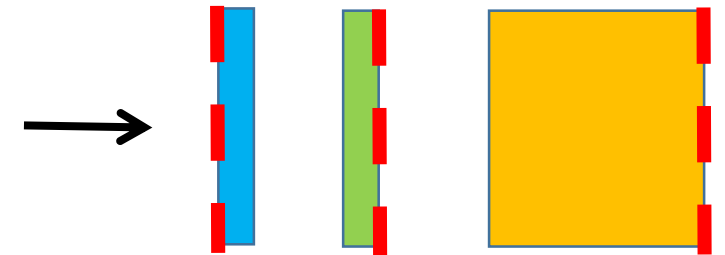
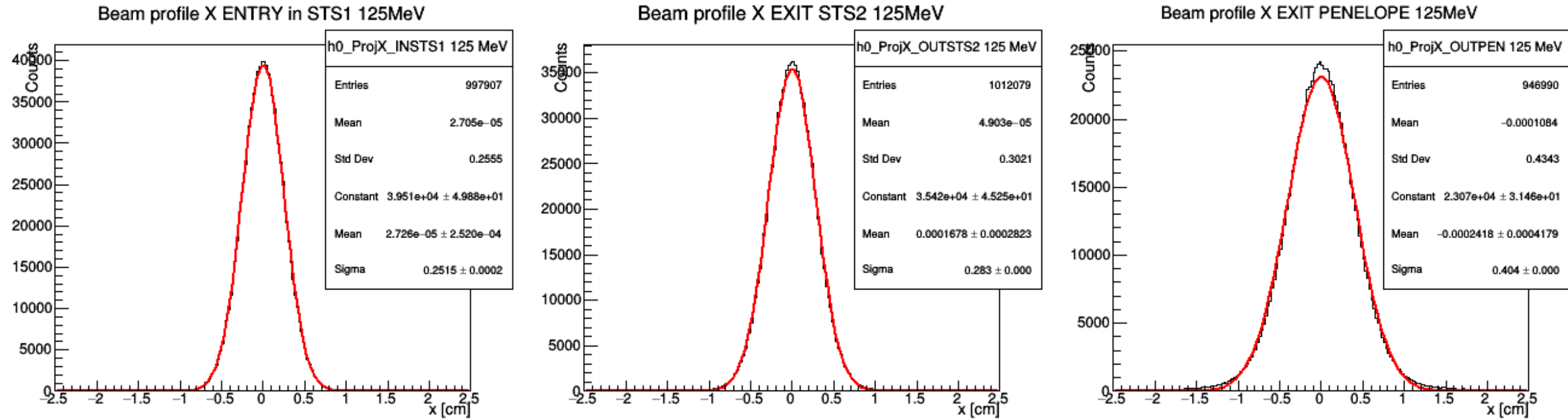


# SOME RESULTS: mean kinetic energy VS initial energy



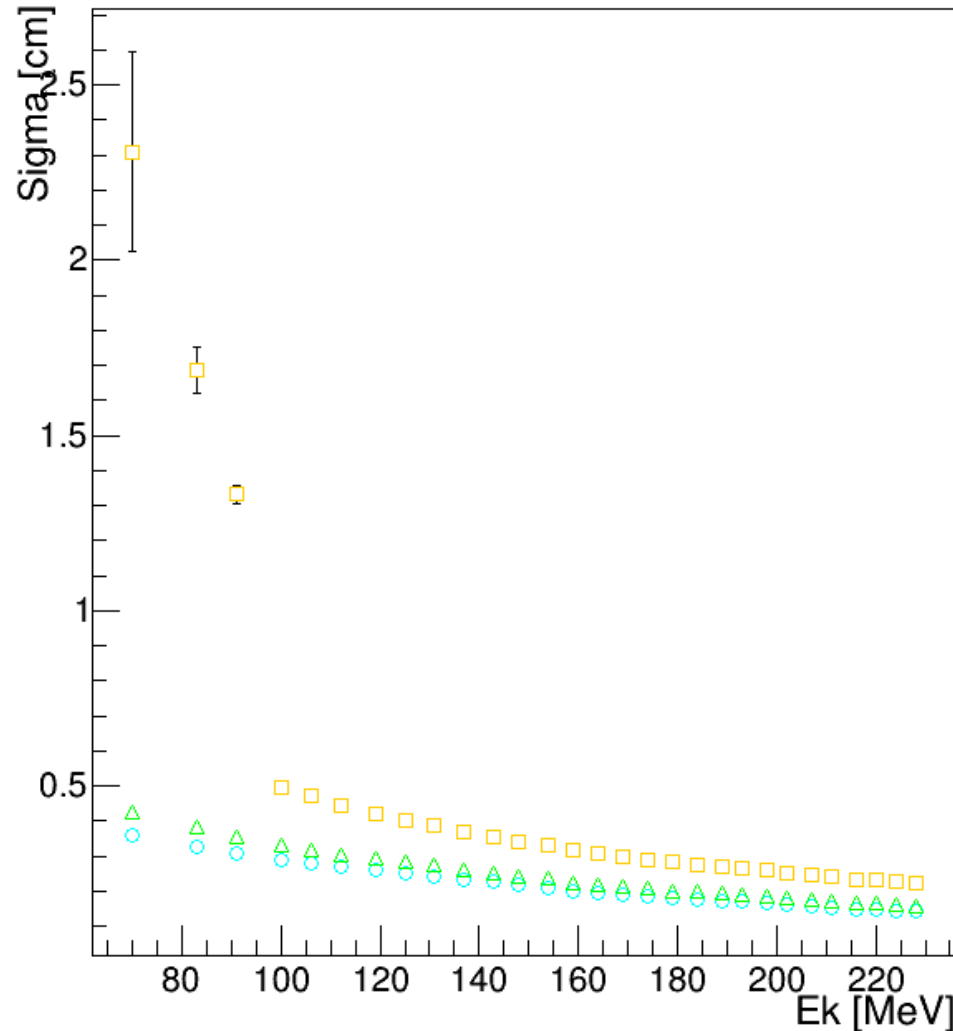
# SOME RESULTS: beam profile

## Beam Profile xz axis for Beam Energy 125 MeV

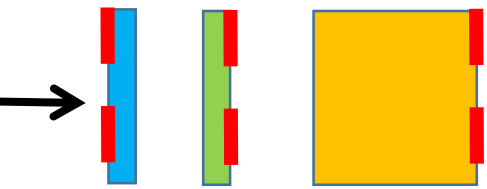
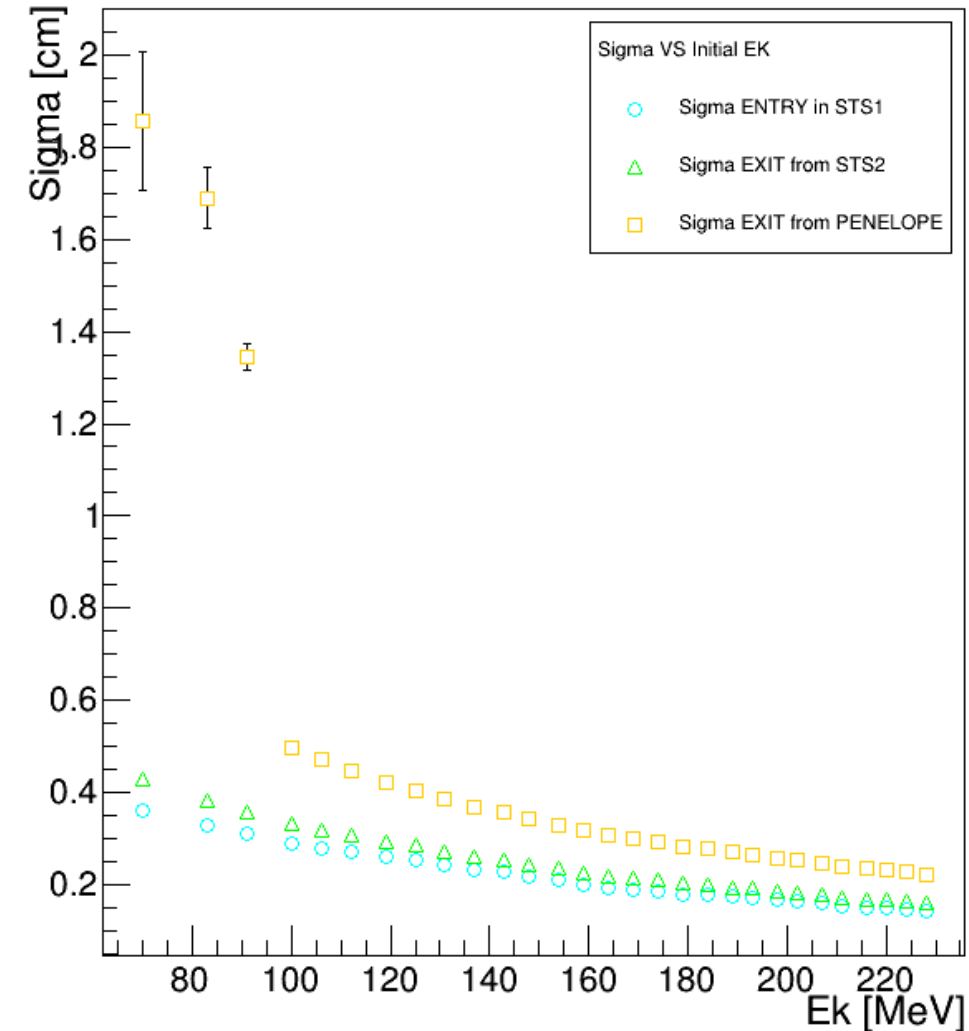


# SOME RESULTS: beam profile sigma distribution VS initial energy

Sigma X IN\_STS1-OUT\_STS2-OUT\_PENEL vs EKin

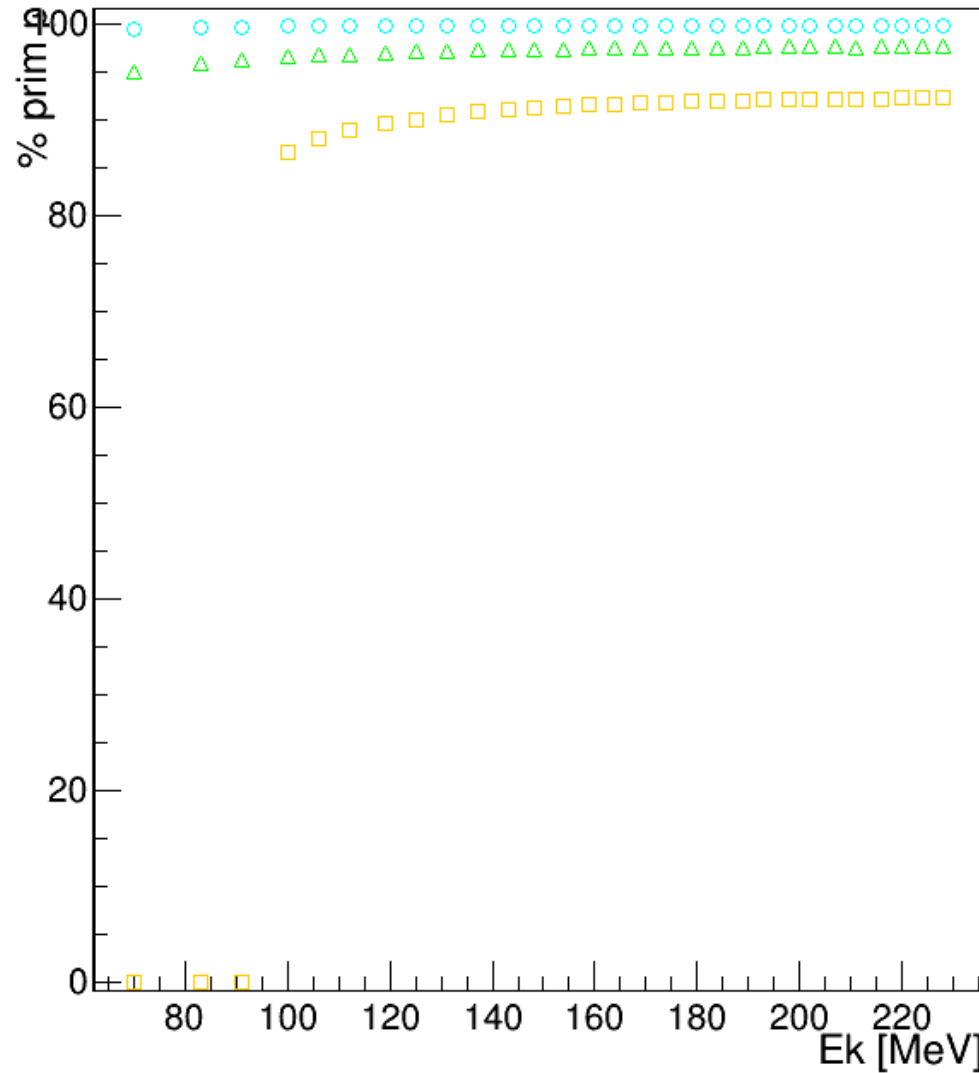


Sigma Y IN\_STS1-OUT\_STS2-OUT\_PENEL vs EKin

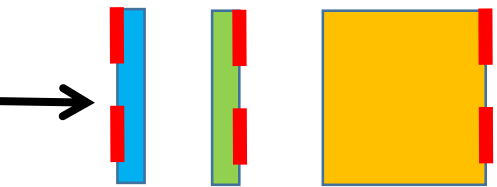
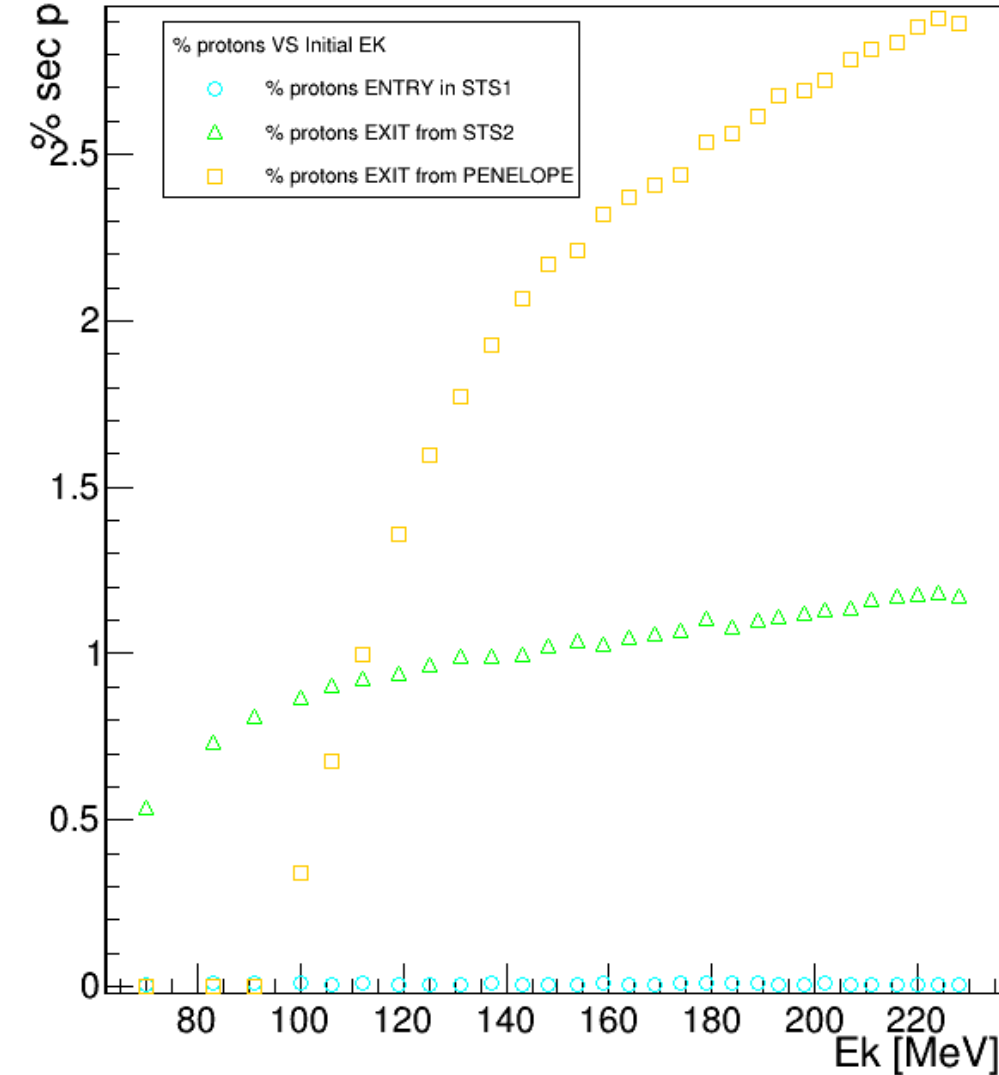


# SOME RESULTS: % of primary & secondary protons VS initial energy

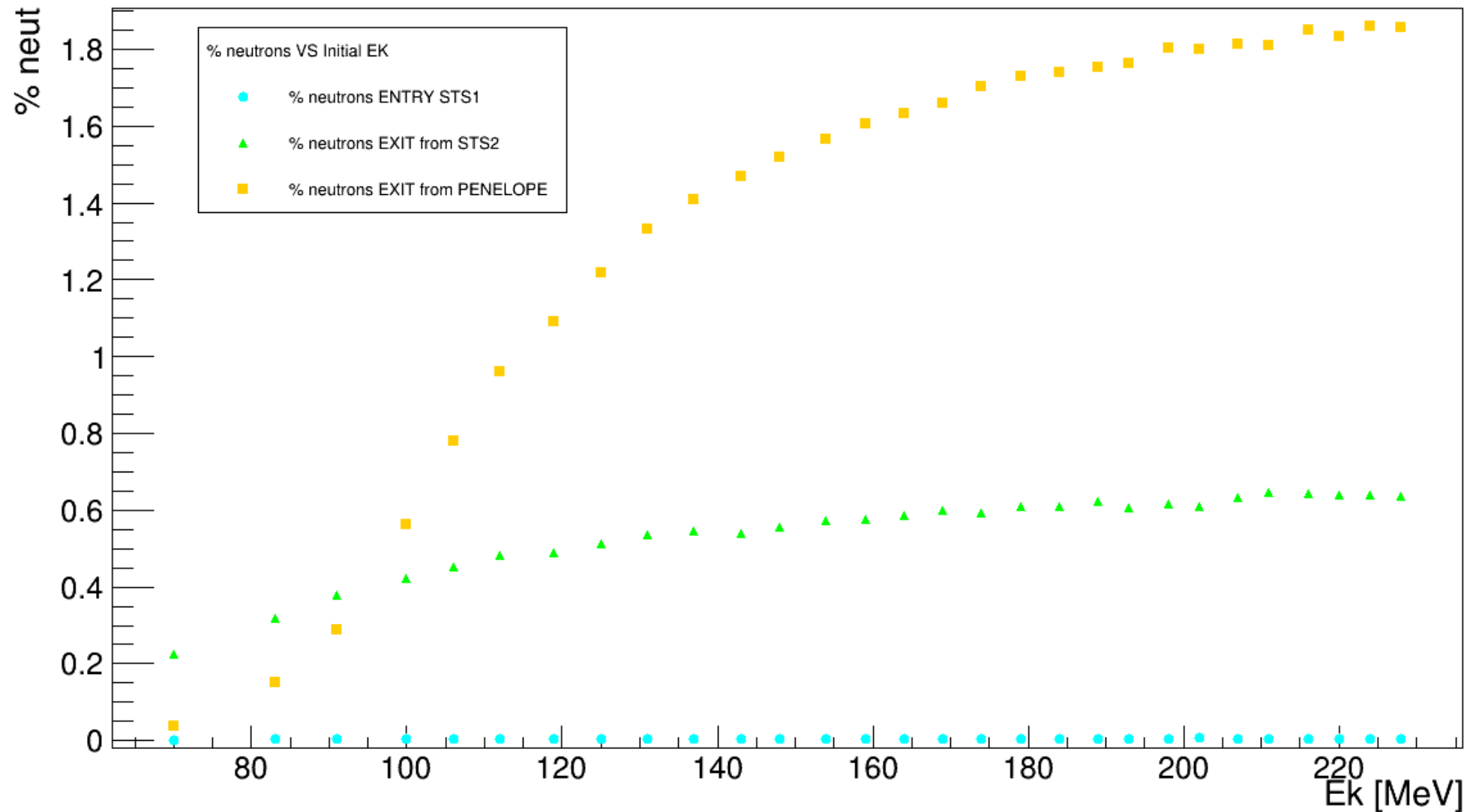
Primary Prot IN\_STS1-OUT\_STS2-OUT\_PENEL vs EKin



Secondary Prot IN\_STS1-OUT\_STS2-OUT\_PENEL vs EKin



# SOME RESULTS: % of neutrons (>10 MeV) VS initial energy

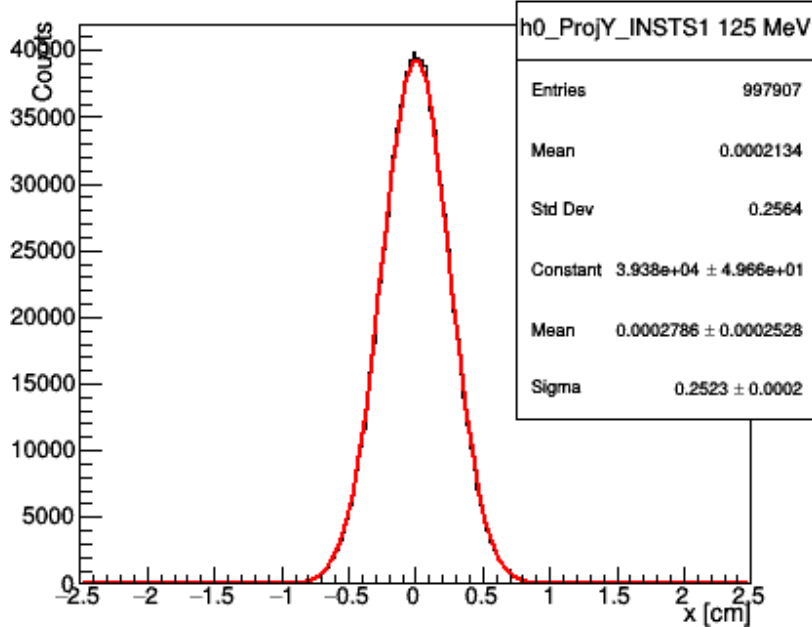




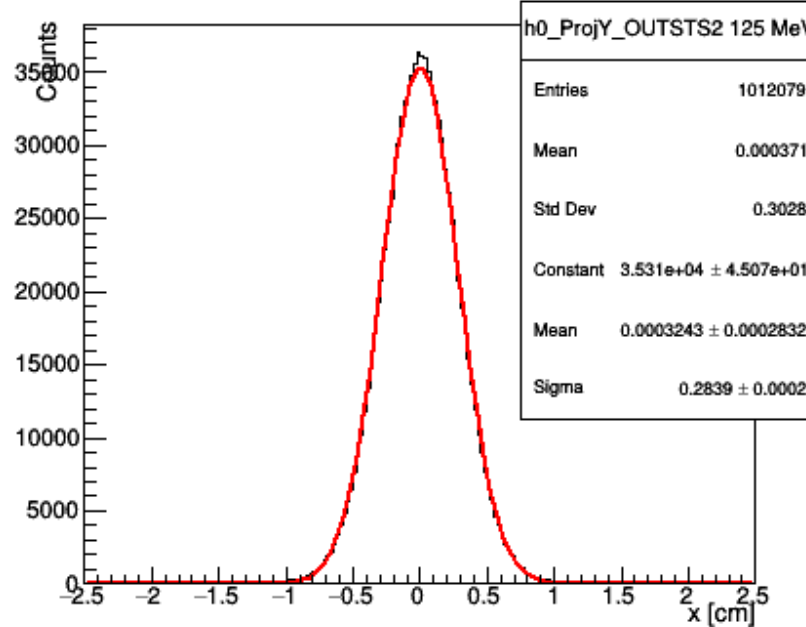
# SOME RESULTS: beam profile

## Beam Profile yz axis for Beam Energy 125 MeV

Beam profile Y ENTRY in STS1 125MeV



Beam profile Y EXIT STS2 125MeV



Beam profile Y EXIT PENELOPE 125MeV

