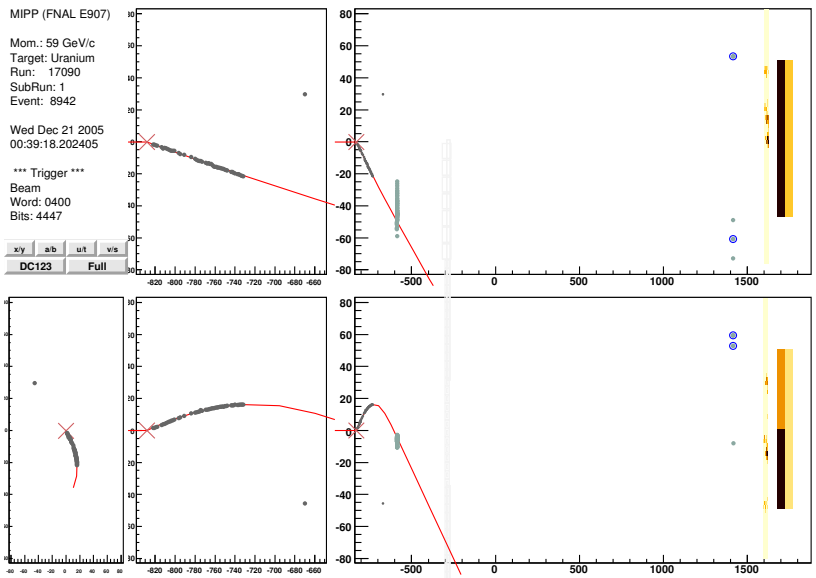
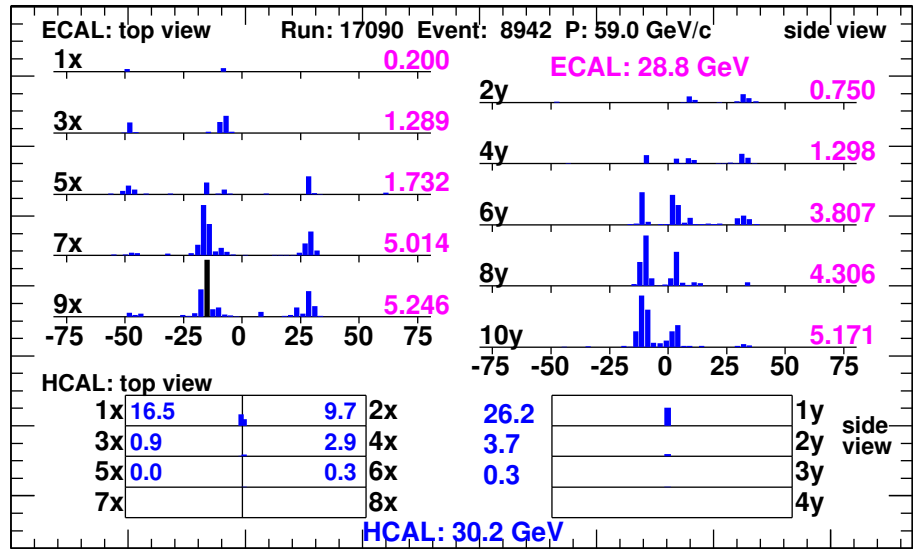
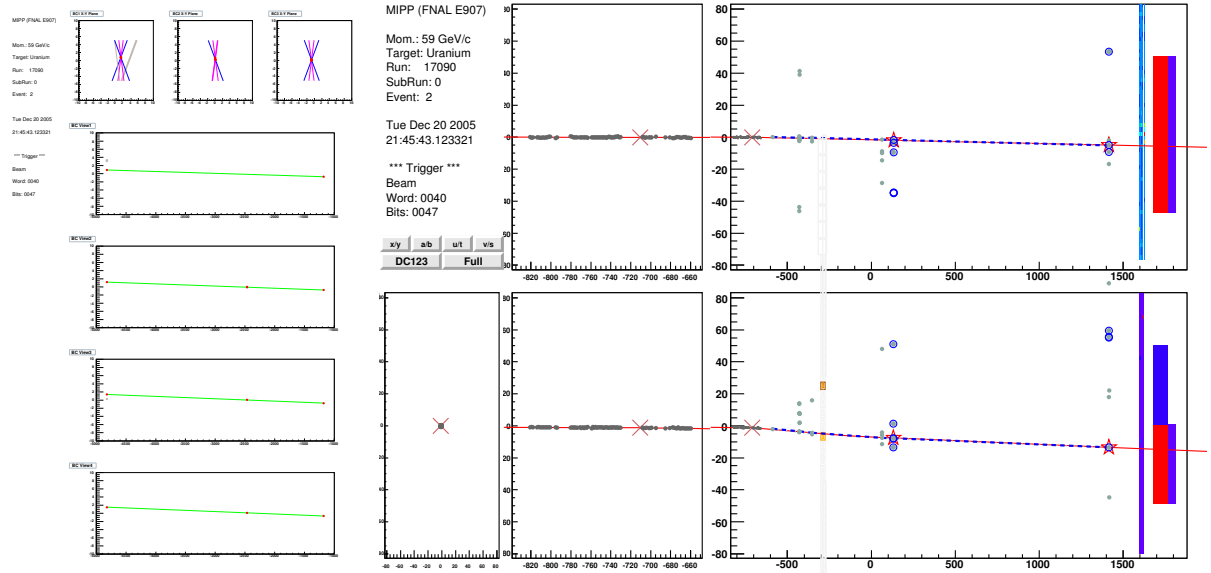
showing East - West depositions

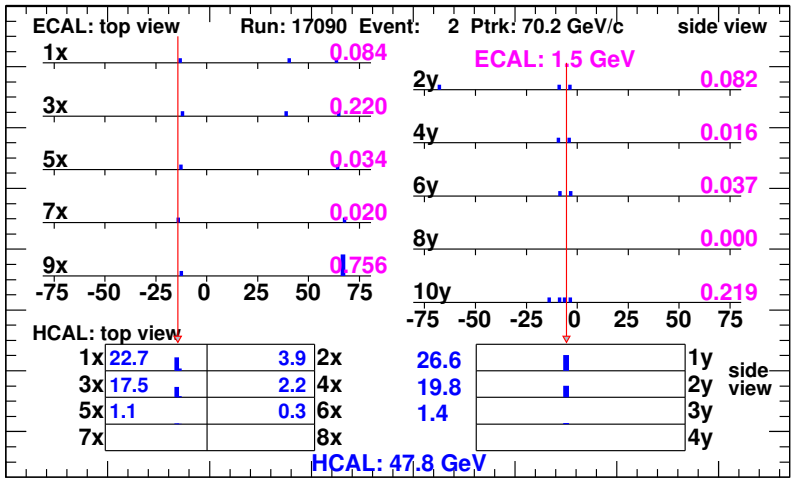




Recoil track: q=1, ptot=0.63/GeV/c. ECAL: 28.8 GeV, HCAL: 30.2 GeV.

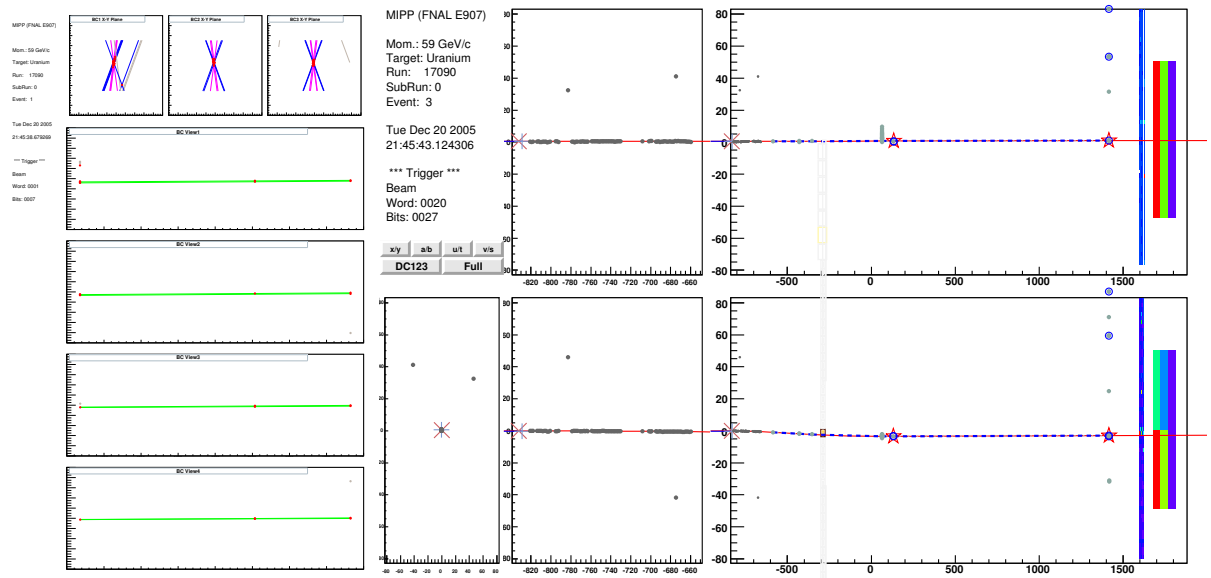
Run: 17090 Event: 2

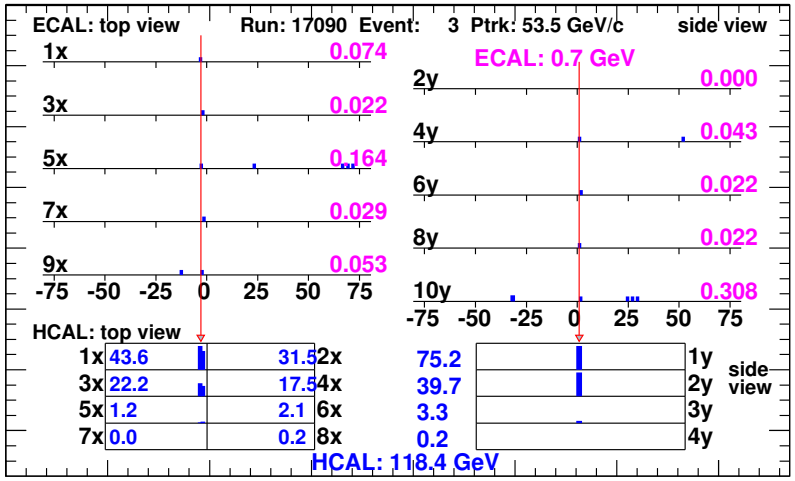




Single beam track. Particle's momentum is not consistent with the deposition into calorimeter's: 70.2 GeV vs 50 GeV. Where 20 GeV energy is gone?

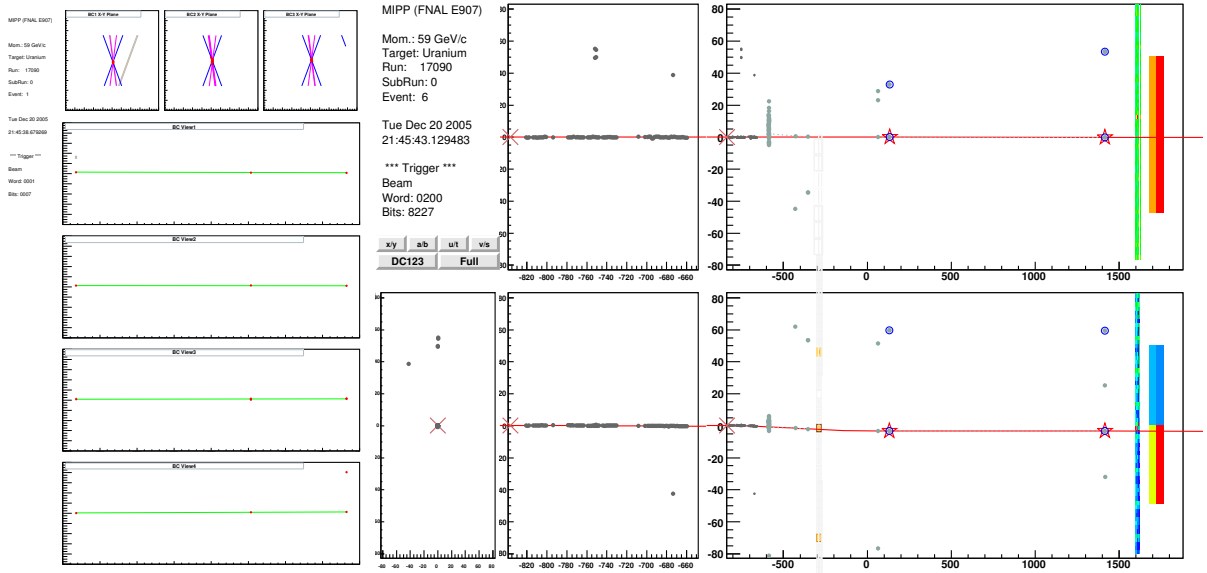
Run: 17090 Event: 3

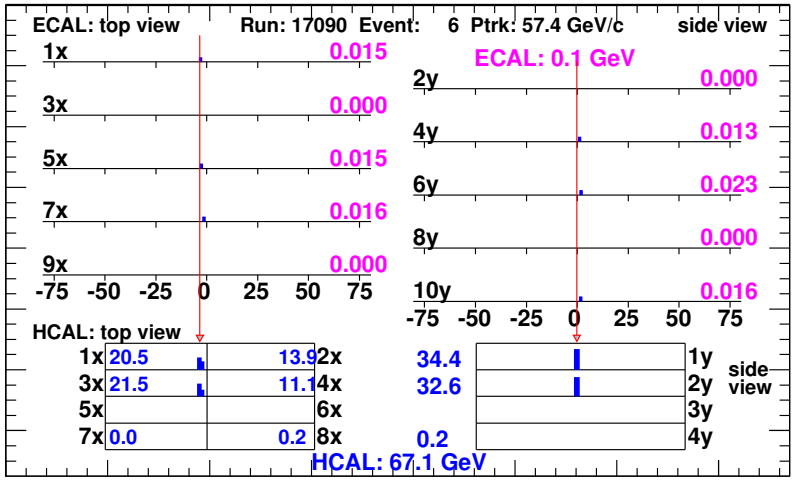




Deposited energy into HCAL is too high. It is possible that there two beam tracks there. Second is failed to reconstruct. Event suggests to apply in analysis the total energy cut: the detected energy should not exceed for an example 1.2*Pbeam. No cut on the low energy side. This cut can be effective against the two beam tracks when one of them is failed to reconstruct.

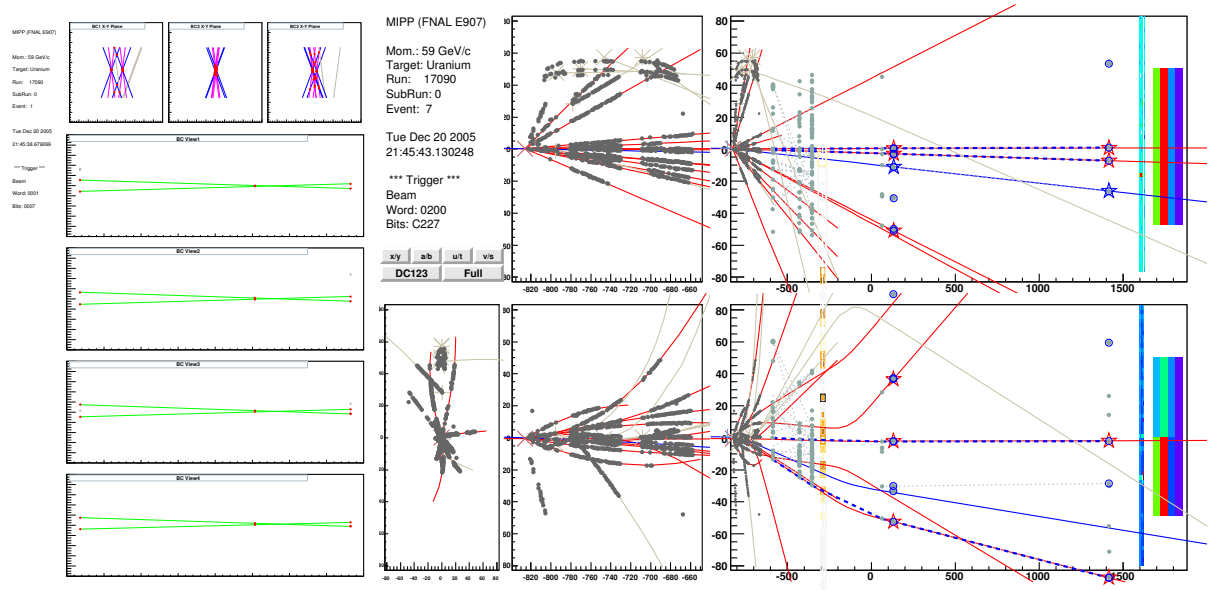
Run: 17090 Event: 6



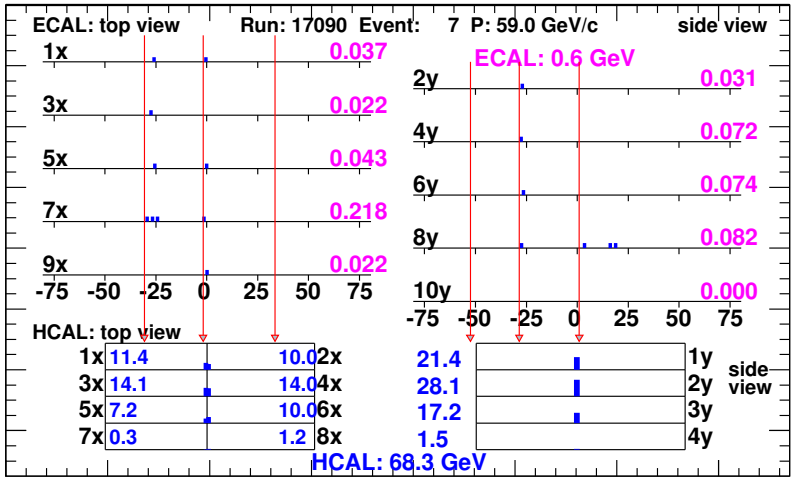


The track momentum and the deposited energy into calorimeters are almost consistent to each other.

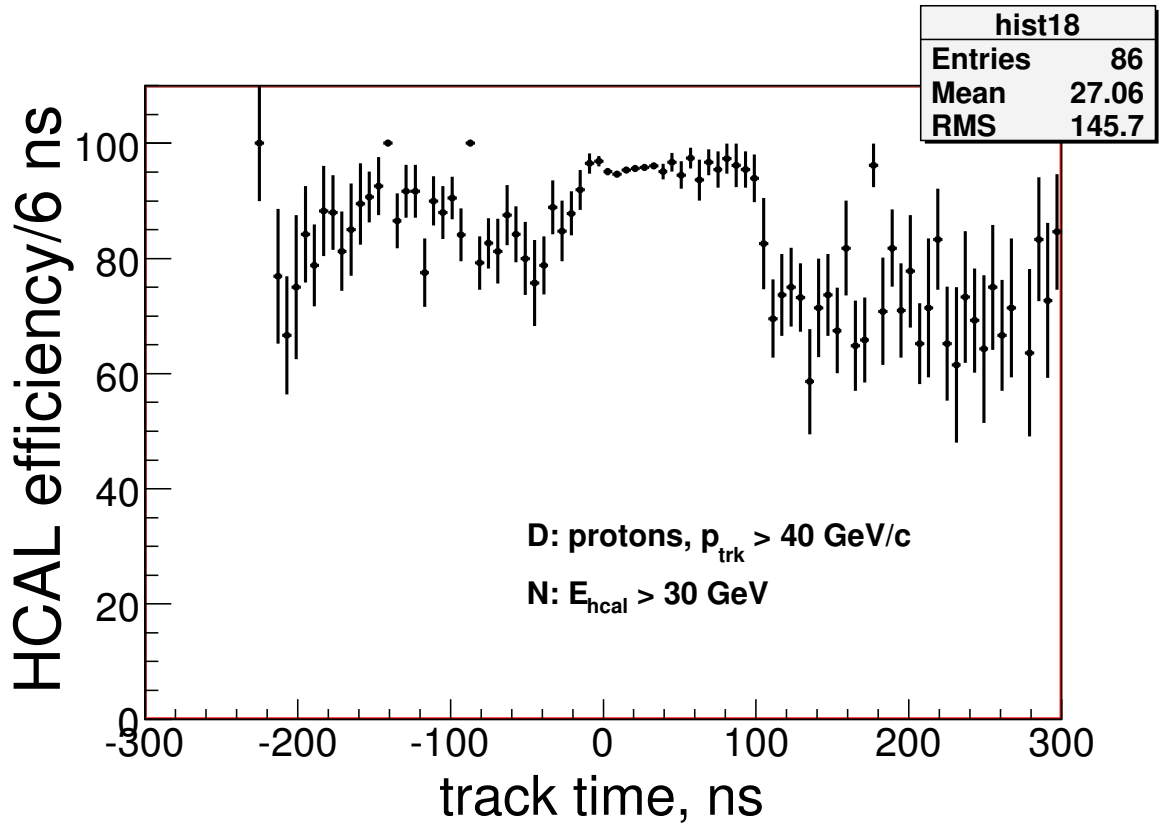
Run: 17090 Event: 7



Two beam track event.



HCAL efficiency vs incoming track time



How HCAL is sensitive to the incoming track time? Plot presents the HCAL efficiency vs the track time. Denominator: good quality single track, p_{tot} >40 GeV/c, at HCAL within 0±35 cm. Numerator: energy deposition into HCAL greater then 30 GeV.