

Beam Halo in data: updates

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Track rejection - 1

- Run 142130 (14542 events, 5836 evts with $1 \leq n\text{Tracks} \leq 4$):

/store/data/Run2010A/Cosmics/ALCARECO/v4/000/142/130/9693689A-3A9E-DF11-A3DE-0030487CD7C0.root

- Number of selected tracks:

– all evts/tracks in the ALCARECO	140,258
– all events w/ $1 \leq n\text{Tracks} \leq 4$	9,166
– after TrackRefitterBHM* TrackerTrackHitFilter* ctfWithMaterialTracks* AlignmentTrackSelector* TrackRefitterBHM sequence	2,111
– + $p \geq 2.5$	1,018
– + $n\text{Hit} \geq 8$	994
– + $n\text{HitsPerSubDet.inENDCAPplus/minus} \geq 1$	571
– + $n\text{LostHits} \geq 2$	567
– + $n\text{HitDiffEndcaps} \leq 2$	402
– + $\chi^2 n \leq 10$.	402

Track rejection - 2

- Additional checks:
 - after all cuts, except $1 \leq nTracks \leq 4$ 456
 - after all cuts, except $nHit \geq 8$ 402
 - after all cuts, except $nLostHit \leq 2$ 403
 - changing sequence to AlignmentTrackSelector*TrackRefitterBHM,
after all cuts 464