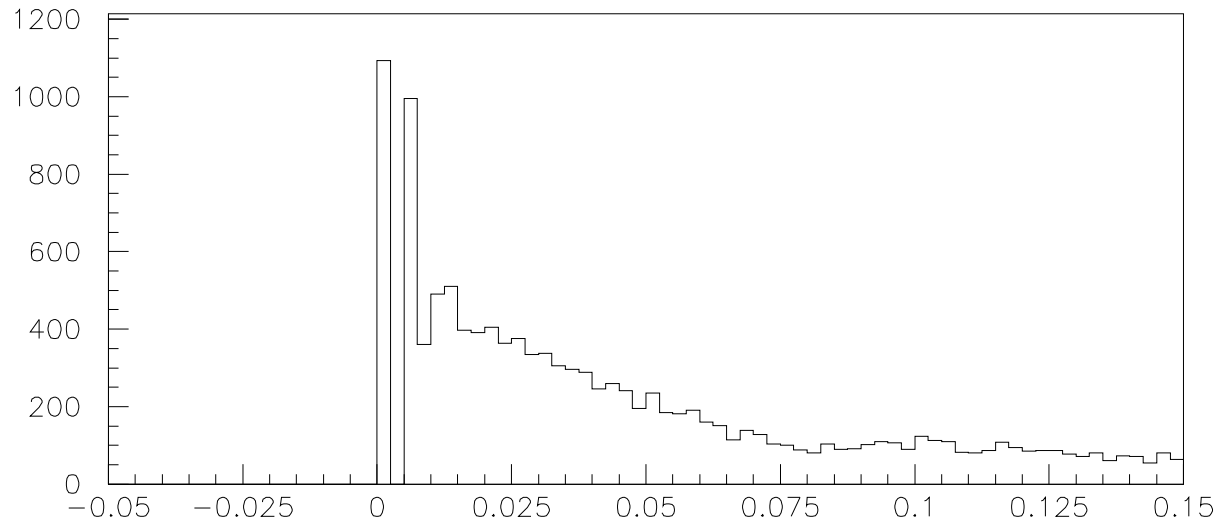
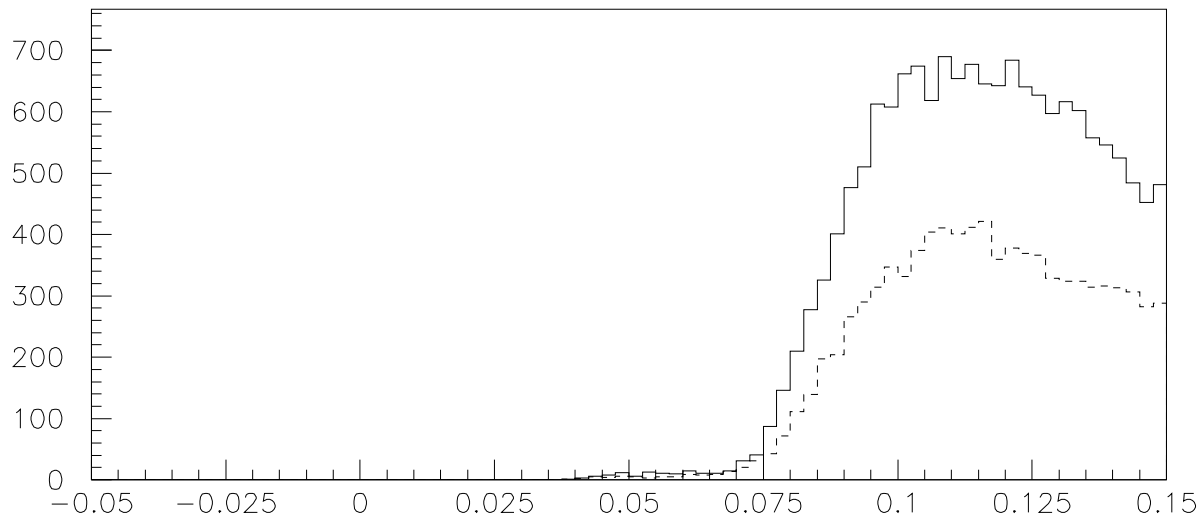


Trigger Mystery!



CC energy for run 125348, trigger line ElTrack



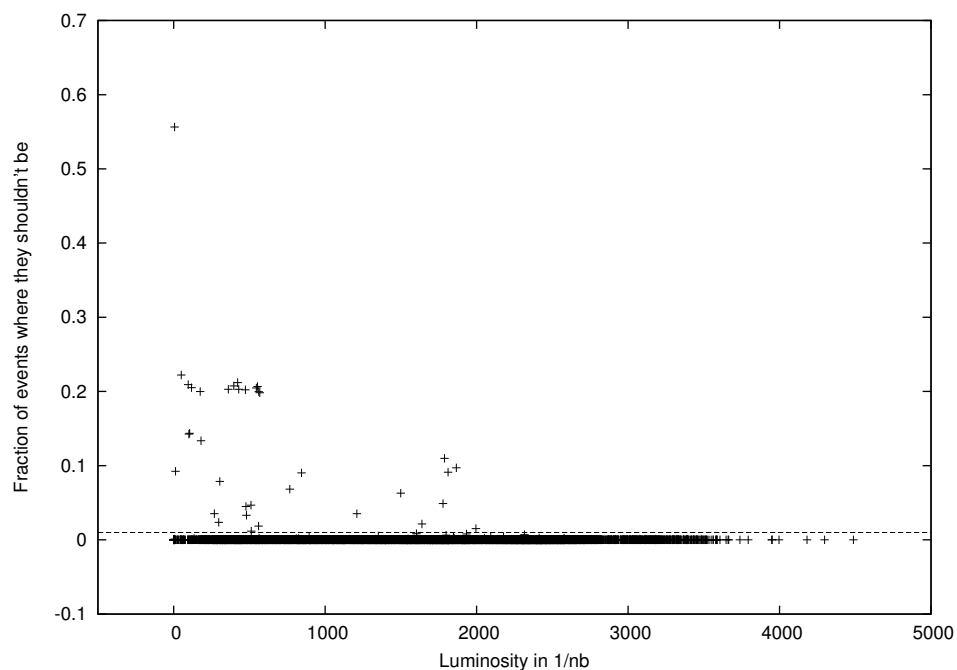
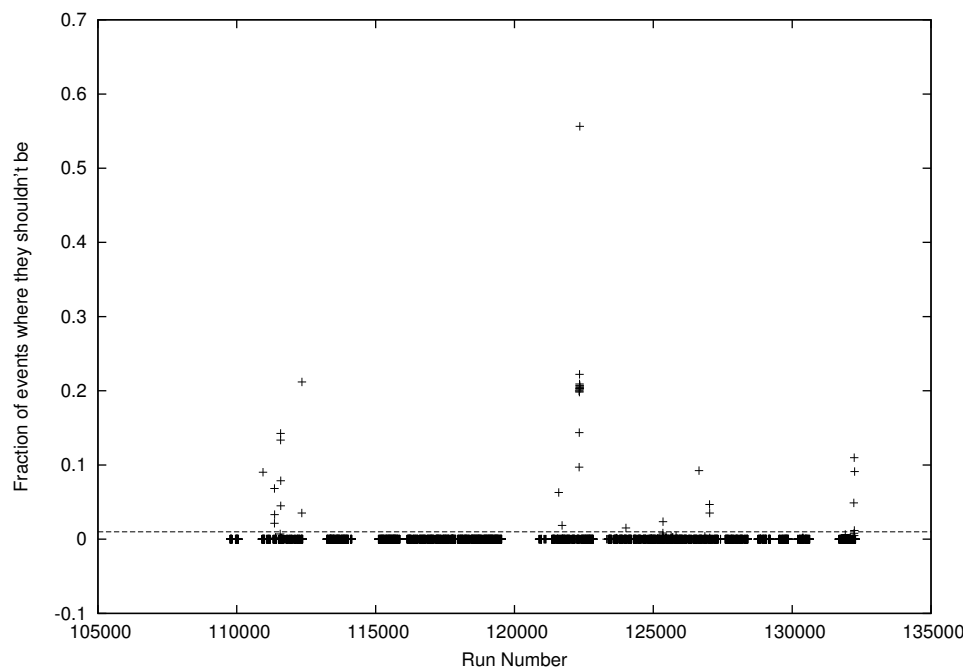
CC energy for other runs, trigger line ElTrack

This is a trigger malfunction I encountered when looking at raw data: run 125348 has many events that passed the ElTrack line with at least one CBMD shower. However, a full reconstruction of the event shows that there is not enough energy in the entire CC to make the CBMD shower.

(No cuts were applied to this plot except for the ElTrack trigger. It is raw data that came from tape.)

CBMD is not the only variable affected; the CC energy of events passing the Hadron line had a different spectrum, too.

A list of affected runs is on the next page.



run	frac	(nb ⁻¹)	run	frac	(nb ⁻¹)
121595	0.0629676	1498.9	125348	0.0236059	297.7
121714	0.0186295	560.7	126647	0.0924731	12.7
122330	0.0972059	1866.1	127026	0.0467418	510.4
122331	0.199991	175.0	127028	0.0353018	268.3
122335	0.143708	105.4	132221	0.0489149	1778.2
122336	0.198272	569.1	132236	0.109944	1788.1
122339	0.199762	561.4	132239	0.0117223	512.3
122341	0.202276	473.6	132247	0.0912106	1811.9
122342	0.202954	360.5	110945	0.0903118	844.0
122344	0.222128	50.6	111355	0.0215249	1638.9
122345	0.209215	96.3	111357	0.0684584	766.8
122347	0.207477	397.0	111361	0.0332281	480.7
122349	0.204689	546.0	111578	0.133685	180.1
122350	0.206655	553.7	111579	0.142677	100.2
122351	0.203038	430.0	111581	0.0787731	304.2
122352	0.205154	118.0	111582	0.0450814	477.0
122353	0.55646	6.3	112342	0.0353313	1209.4
124012	0.0151013	1995.2	112348	0.211926	422.5