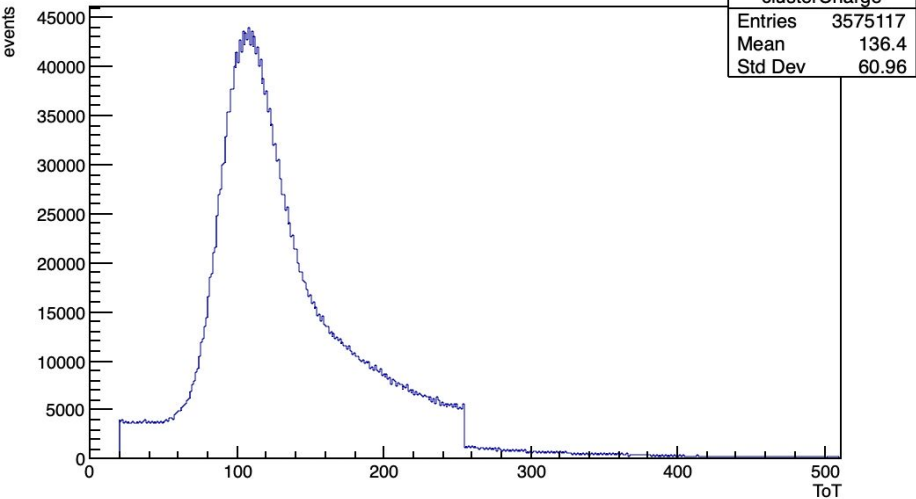


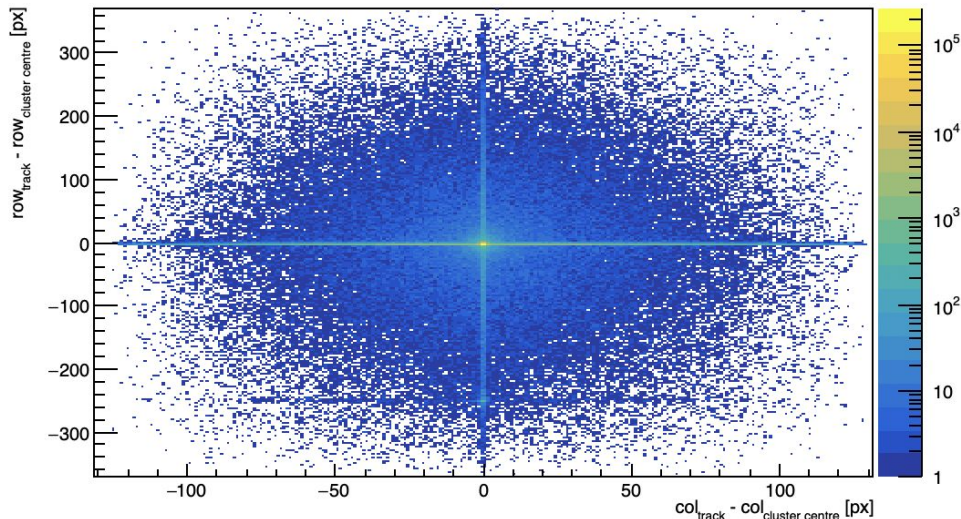
Testbeam updates

Another UDP bug

ATLASPix3_2 Cluster Charge



Distance track to hit col row



- still noticed a bug in the UDP readout for 3 GeV runs (despite the correction of the UDP bug I made some month ago <https://indico.ihep.ac.cn/event/19081/>)
- still corrupted ToT and cluster position
- lower efficiency

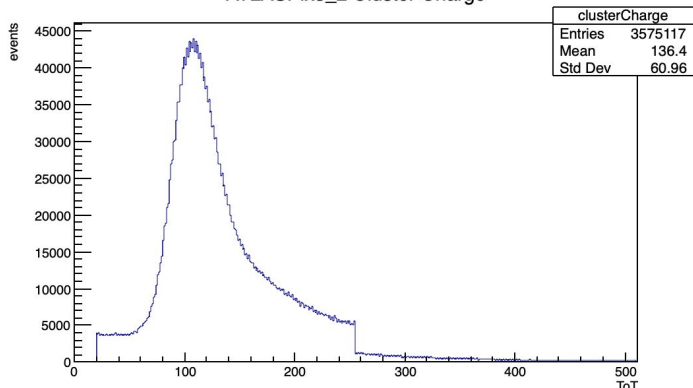
Another UDP bug

00003620	21 24 8f 36 28 ea 00 f1	22 00 00 3c 21 e5 74 00
00003630	23 00 16 00 52 3c 21 76	31 24 8f 36 28 ea 00 f1
00003640	41 24 8f 36 28 ea 00 f1	32 00 00 3c 21 fa 44 00
00003650	42 00 00 3c 21 f0 27 00	33 01 22 00 52 3c 21 75
00003660	43 00 83 00 52 3c 21 78	11 24 8f 36 28 ea 00 f1
00003670	31 24 8f 36 28 ea 00 f1	41 24 8f 36 28 ea 00 f1
00003680	12 00 00 3c 21 fa 60 00	33 00 eb 00 52 3c 21 76
00003690	42 00 00 3c 21 ee 59 00	13 00 e7 00 52 3c 21 75
000036a0	43 00 ea 00 52 3c 21 76	11 24 8f 36 28 ea 00 f1
000036b0	21 24 8f 36 28 ea 00 f1	12 00 00 3c 21 f9 72 00
000036c0	22 00 00 3c 21 f8 75 00	13 00 9d 00 52 3c 21 75
000036d0	23 00 16 00 52 3c 21 75	41 24 8f 36 28 ea 00 f1
000036e0	42 00 00 3c 22 09 26 00	43 00 83 00 52 3c 21 75

- bug in the UDP
- hitword #2 is missing
- decoder fails and also the following hits are corrupted
- only solution is to remove these hits since they can't be recovered
- this bug becomes more important with increasing rate, for 6 GeV runs it couldn't be noticed
- modified decoding software (should have updated in git)

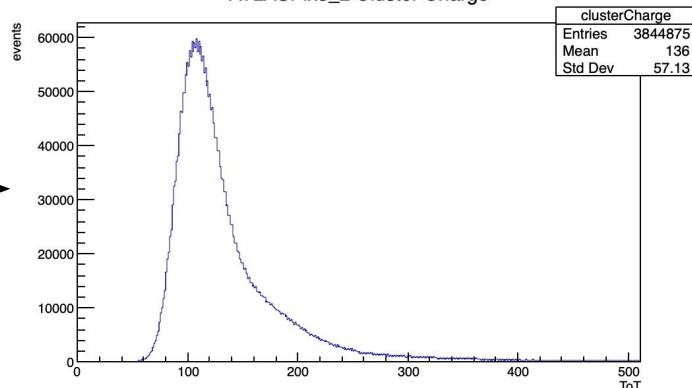
Another UDP bug - solution

ATLASPix3_2 Cluster Charge

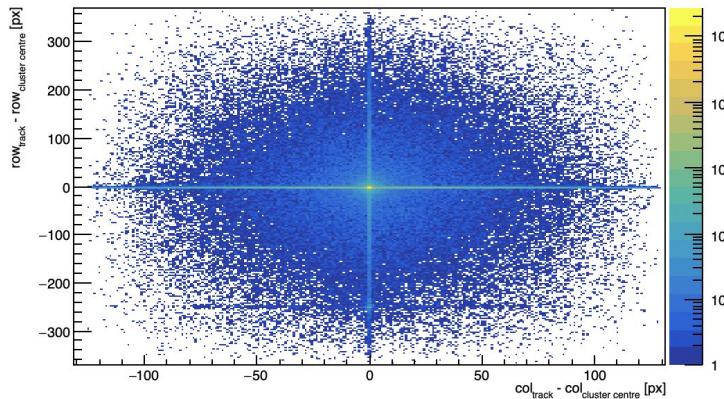


correction →

ATLASPix3_2 Cluster Charge



Distance track to hit col row



correction →

