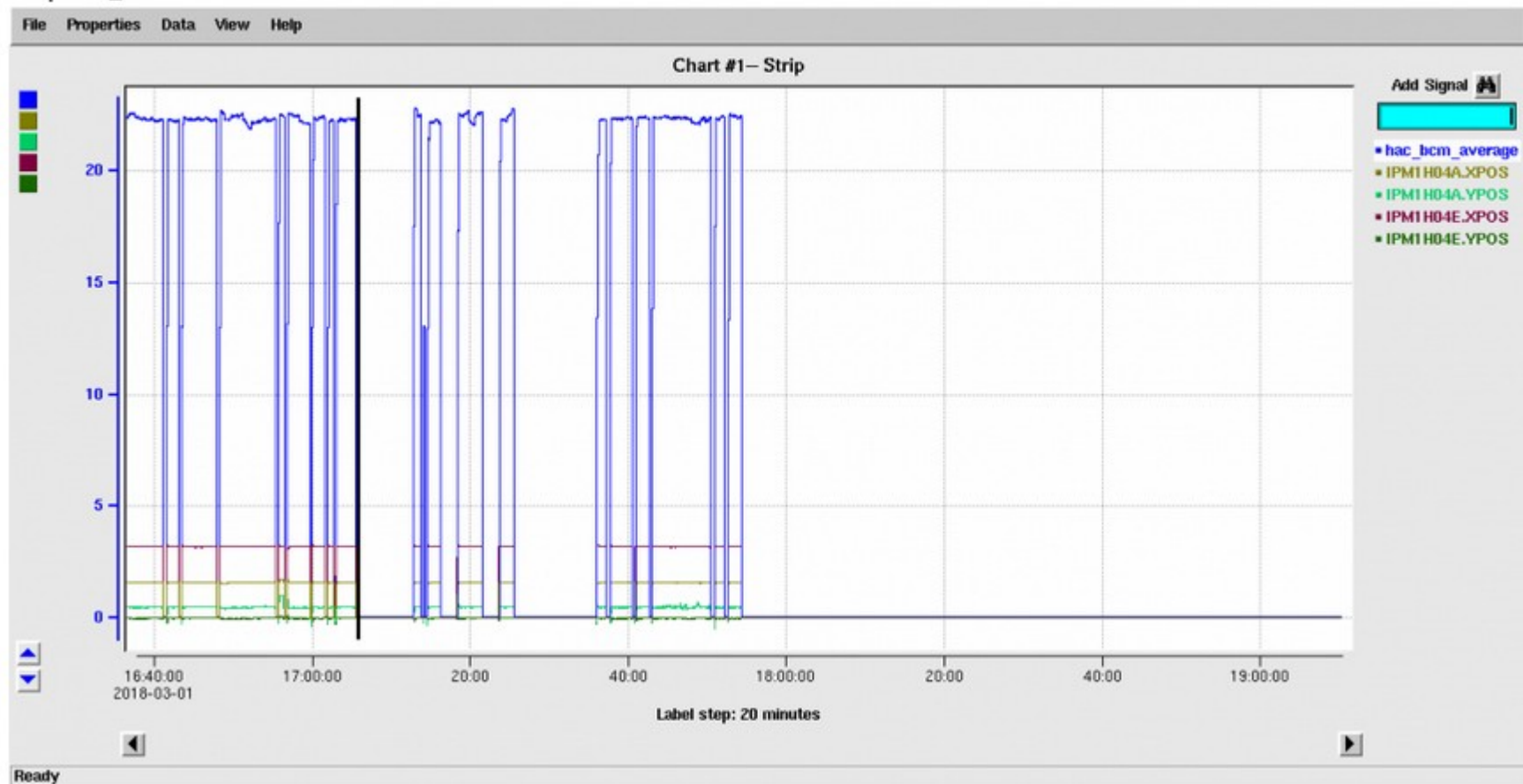


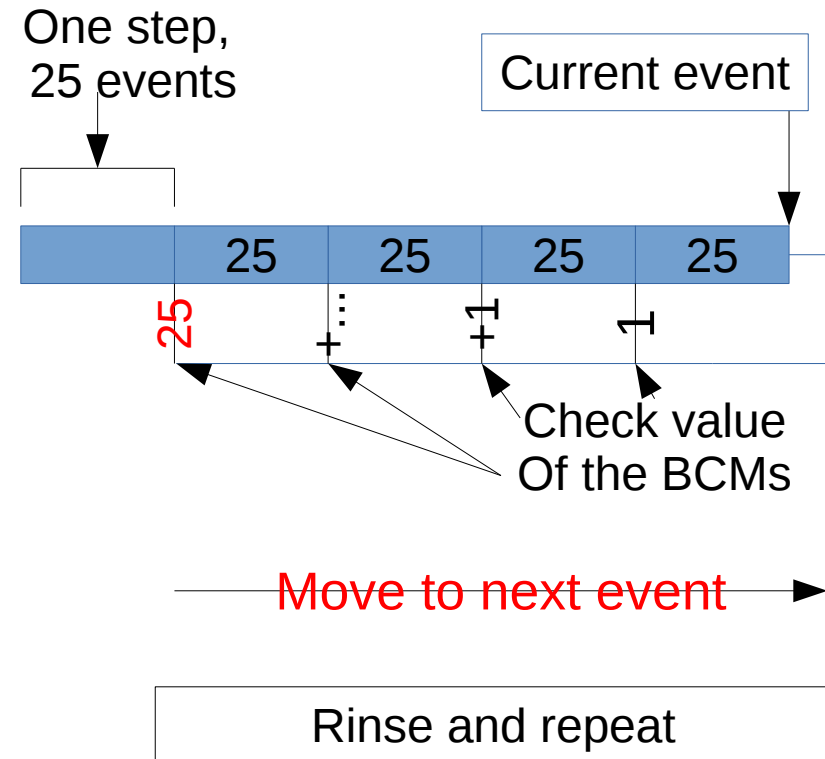
Beam trip cut

snapshot_1



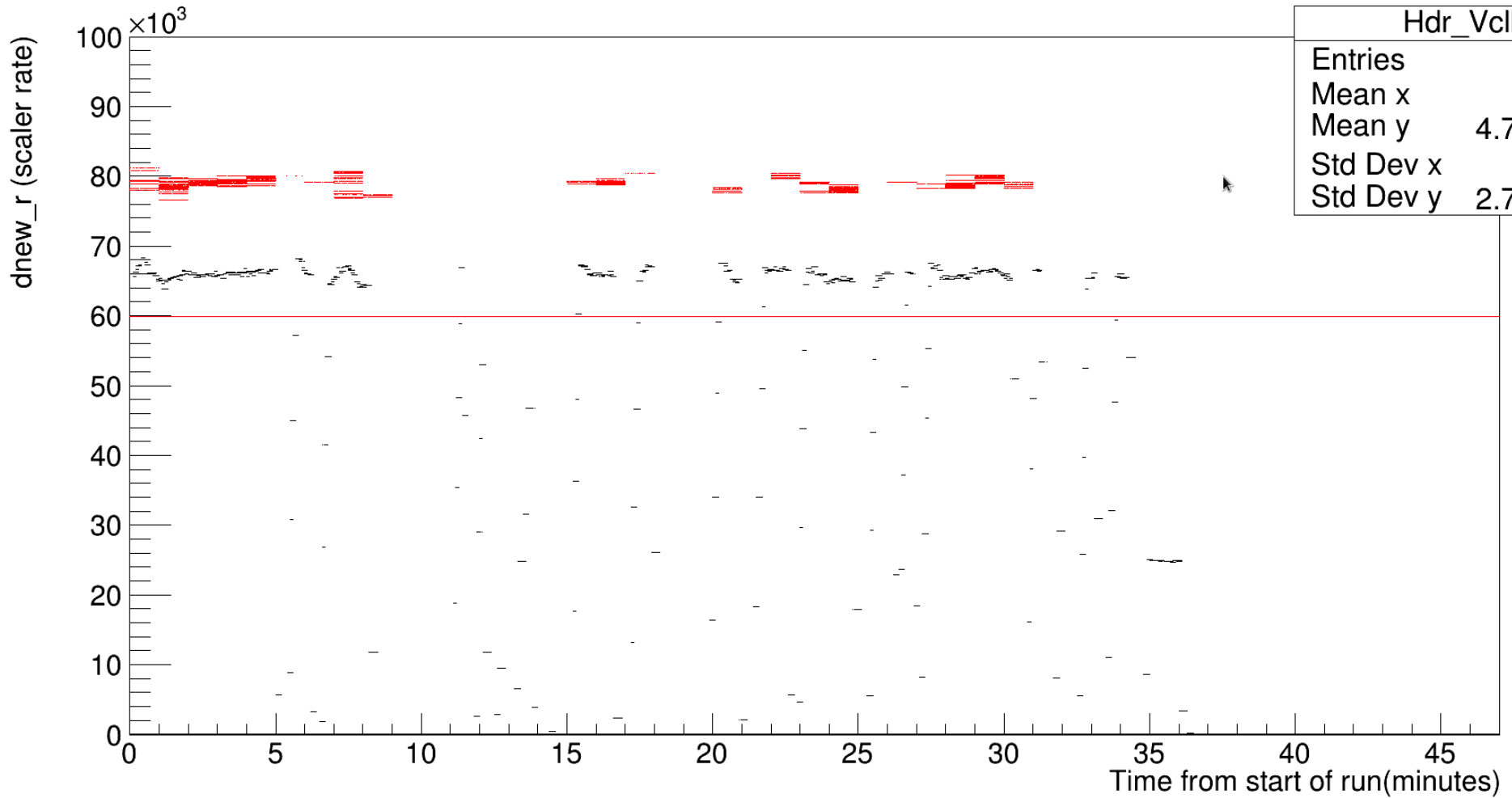
Quality of the beam for an event

- Select an event that has some amount of current
 - Dnew_r above some value
- Take steps back in time and check
 - Dnew_r above some value
 - Assign the original event some Quality based on the amount of steps taken.
 - Assign the event a quantity for the amount of time beam has been up

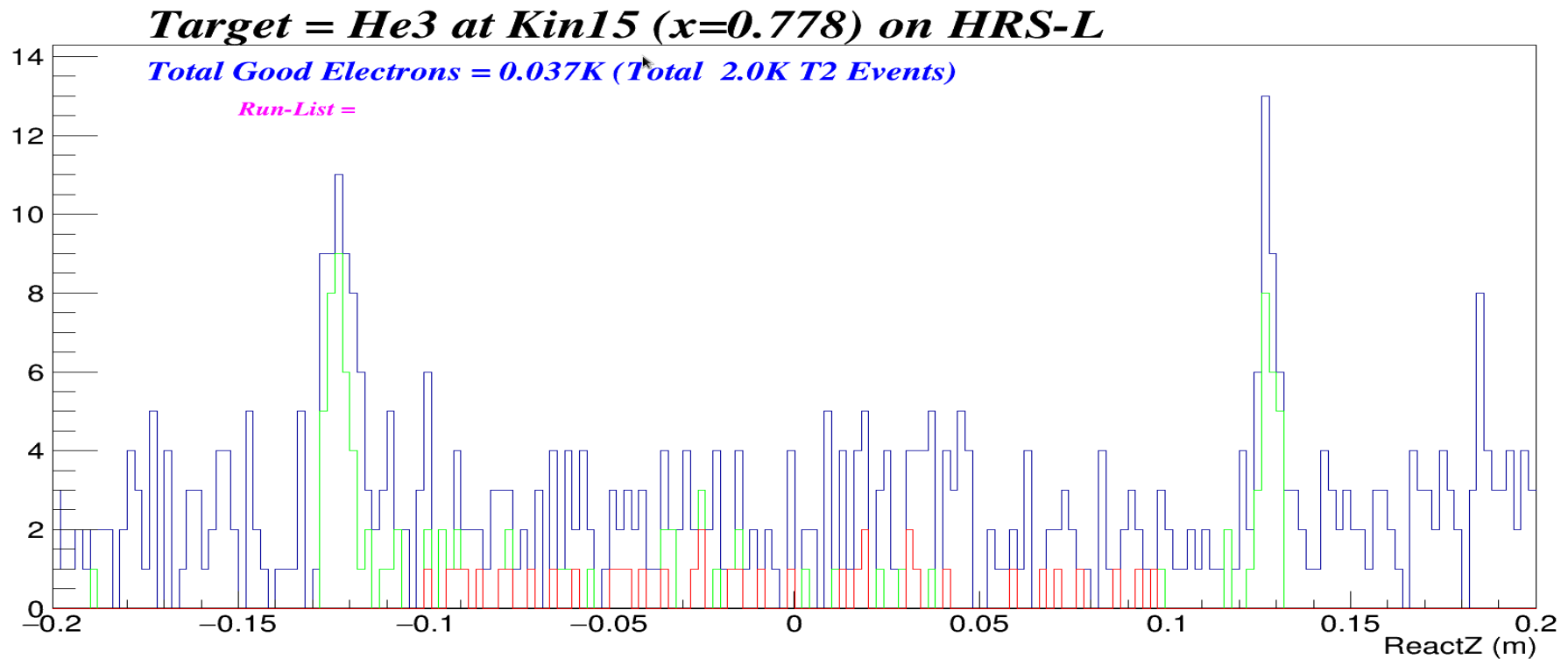
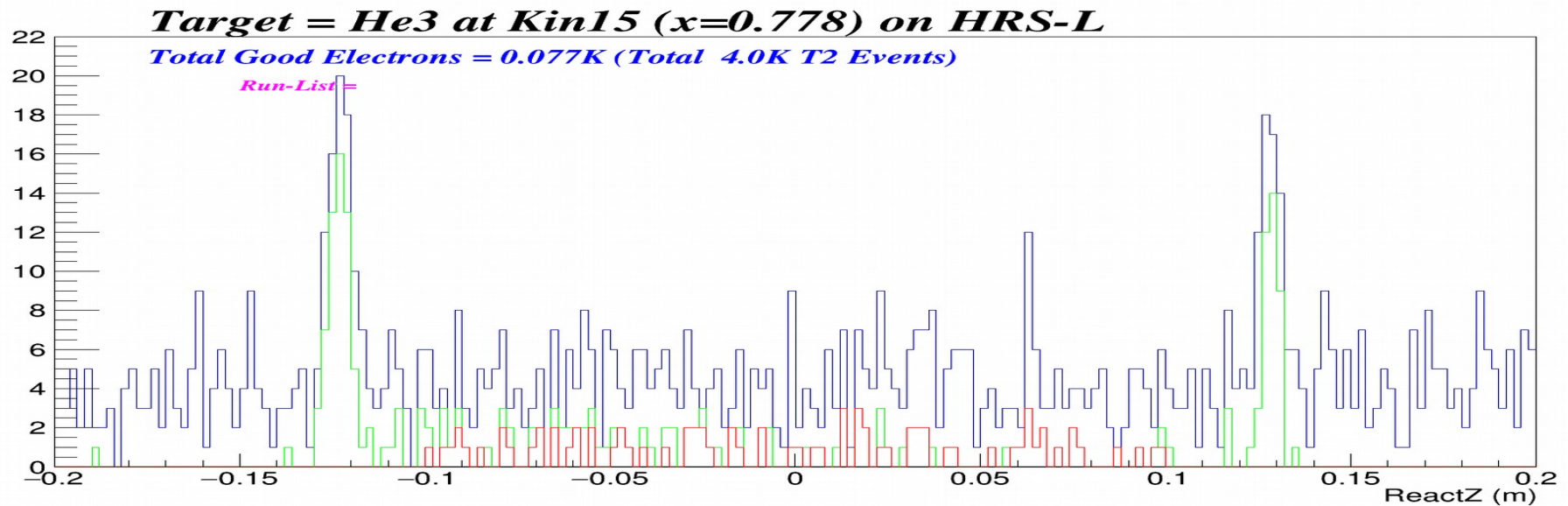


Run 1841

dnew rate:V clock count

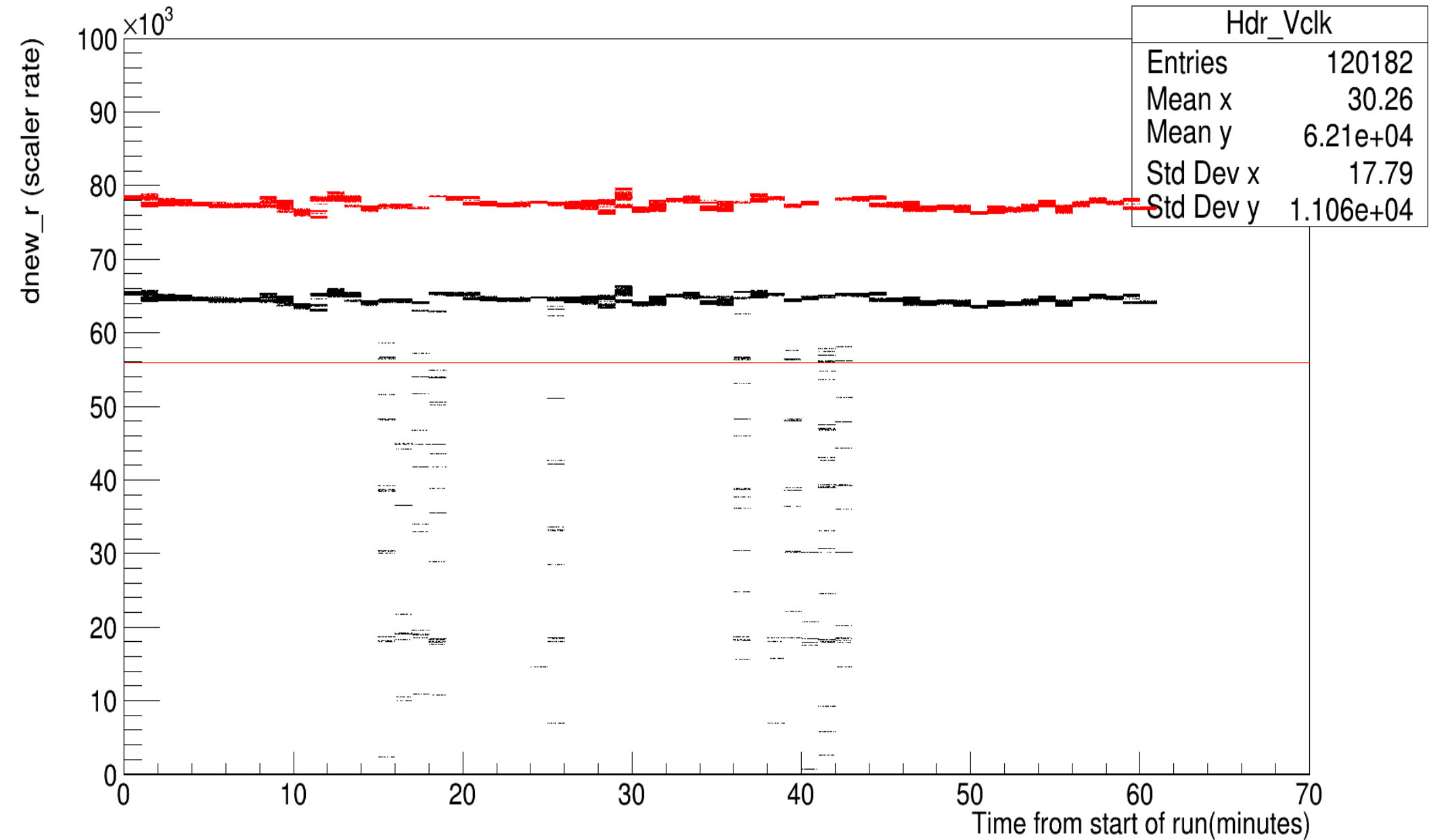


Run 1841 He3 Kin 15



Run 2128 D2 Kin 15

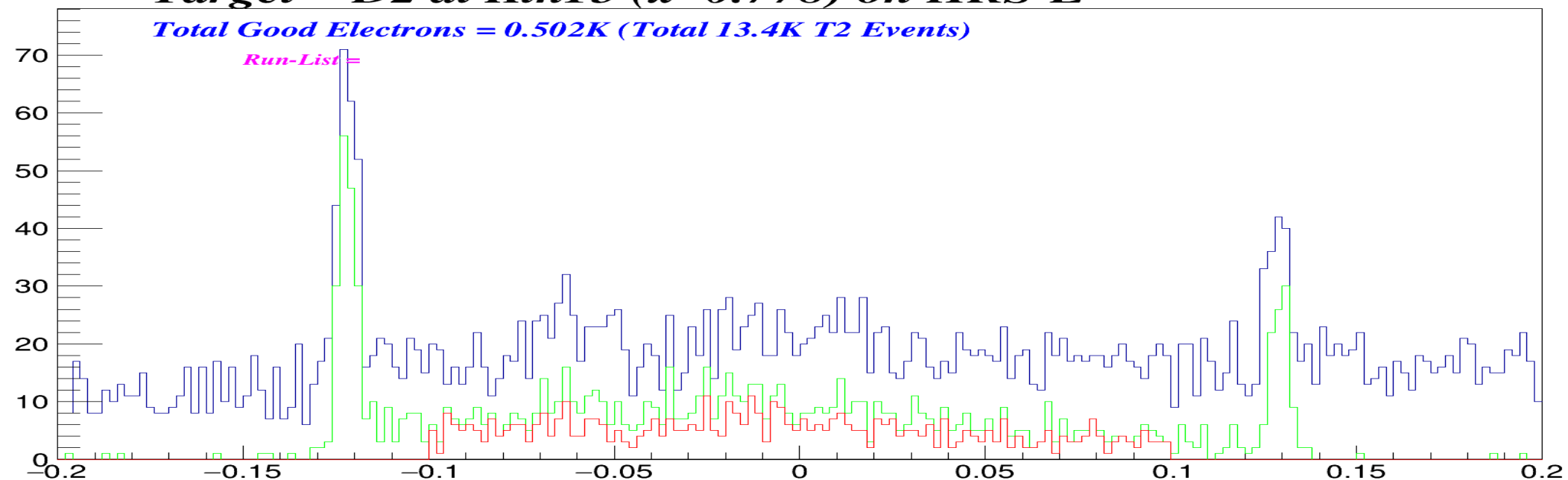
dnew rate:V clock count



Run 2128 D2 Kin 15

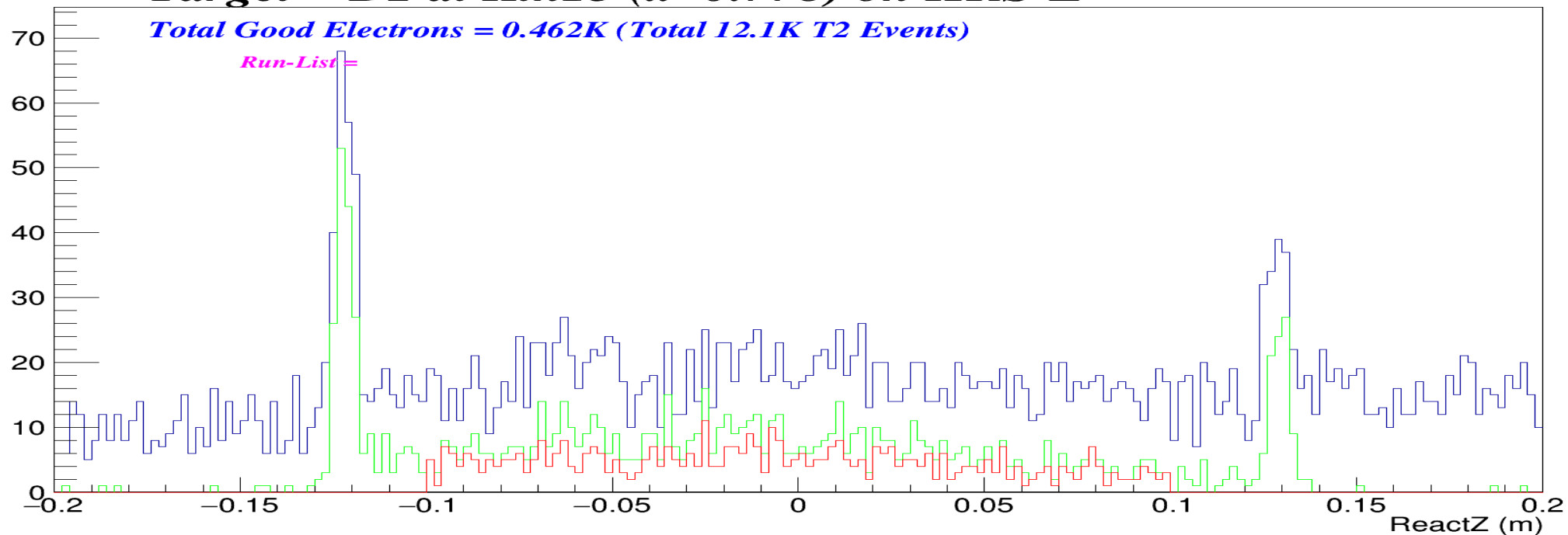
Target = D2 at Kin15 ($x=0.778$) on HRS-L

Total Good Electrons = 0.502K (Total 13.4K T2 Events)



Target = D2 at Kin15 ($x=0.778$) on HRS-L

Total Good Electrons = 0.462K (Total 12.1K T2 Events)



Results so far

Kin	# runs	Good E's	Good E's w/ new cut	Ratio cut/not
D2_kin15	48	17743	14976	0.844
H3_kin15	41	8952	7236	0.808
He3_kin15	52	8505	6849	0.805

Notes:

- Runs that have a change in current see a larger drop in Good Electrons, due to the process of determining the beam on conditions.
- Some runs that have very steady current, the beam on level gets set to high. This can cause slightly lower “beamUp” lengths than expect.