

Hall A RC report (06-13 Feb 2018)

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Status of the machine

- **Late last week:**

- machine had significant issues providing high current beam to both A and C
- through the weekend they decided to do a re-tune of the entire machine (thanks to Jessie and the shift crew for coming in early)
 - we took an access to investigate the LQ1 but no changes were made

- **Early this week:**

- machine still has significant issues related to orbits and xy correlations
- beam back Monday morning (problems with steering)
- Monday mid-day provided actual production beam

- **Now:**

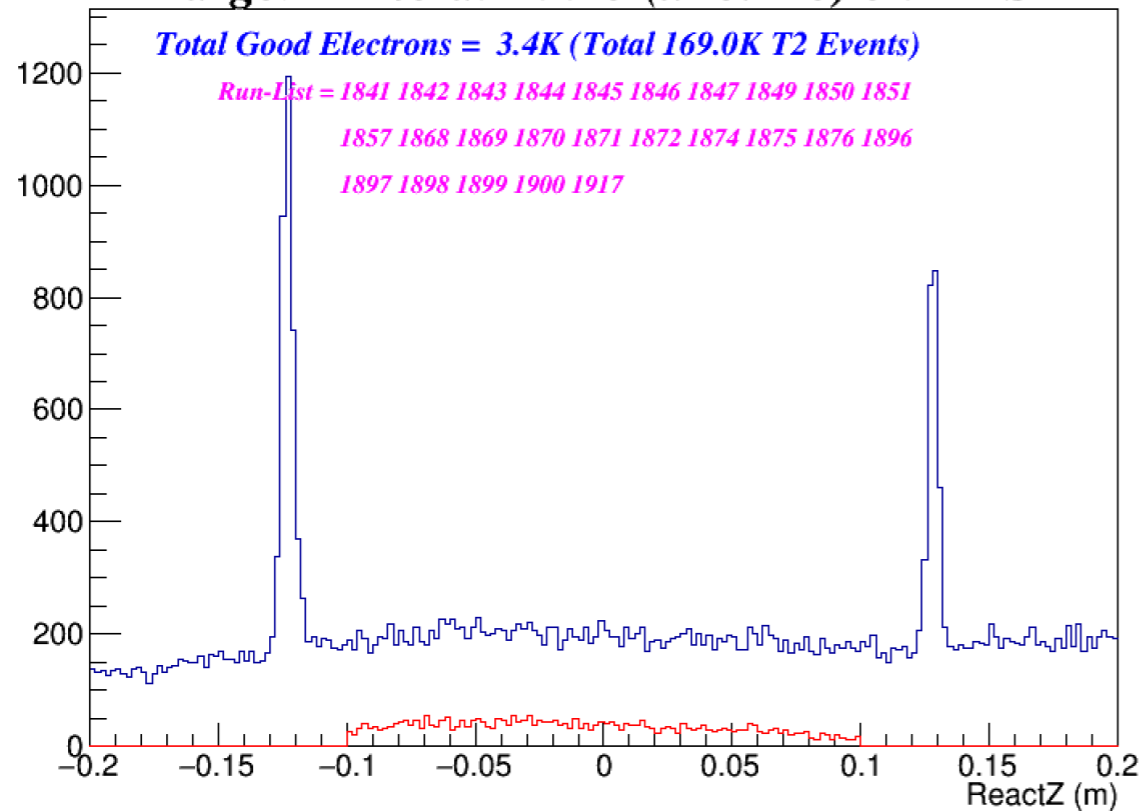
- Continuing with kin15 (L) and kin16 (R) production

- **Plan:**

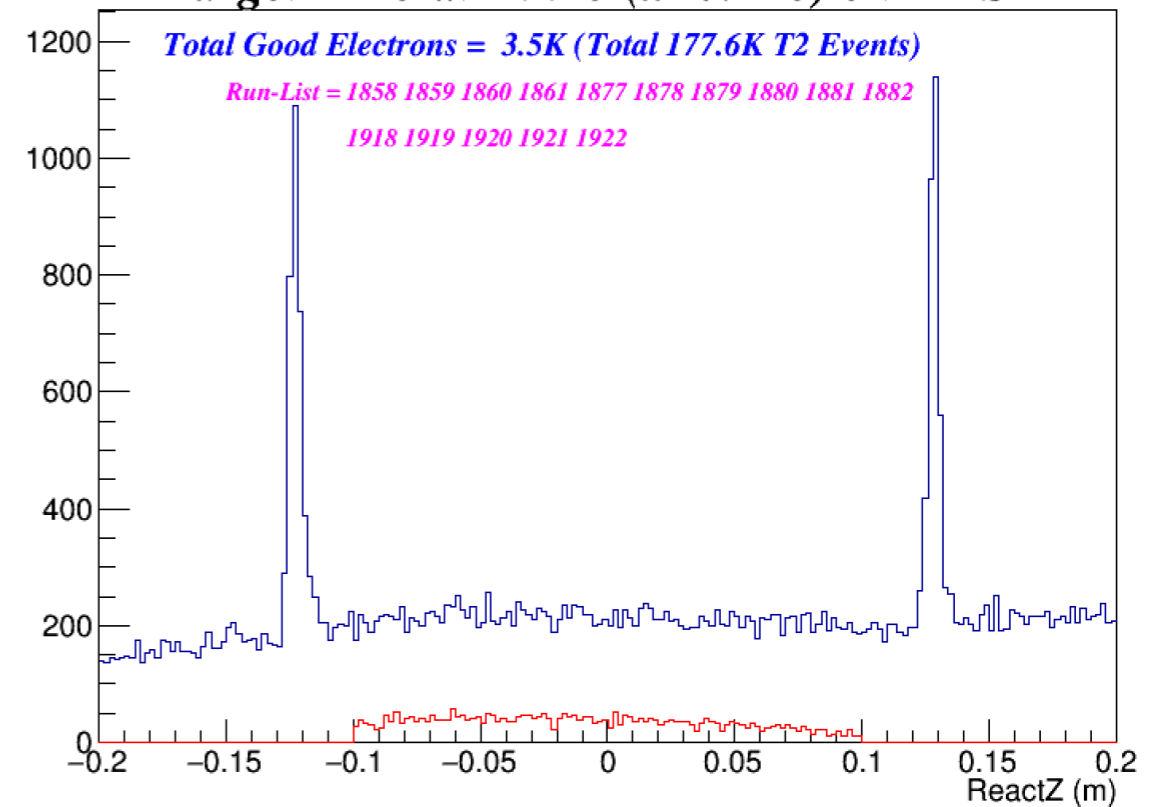
- Provide beam to A, B and D, and establish beam to C and then try to slowly go to their desired current (65 uA)

Good electrons so far

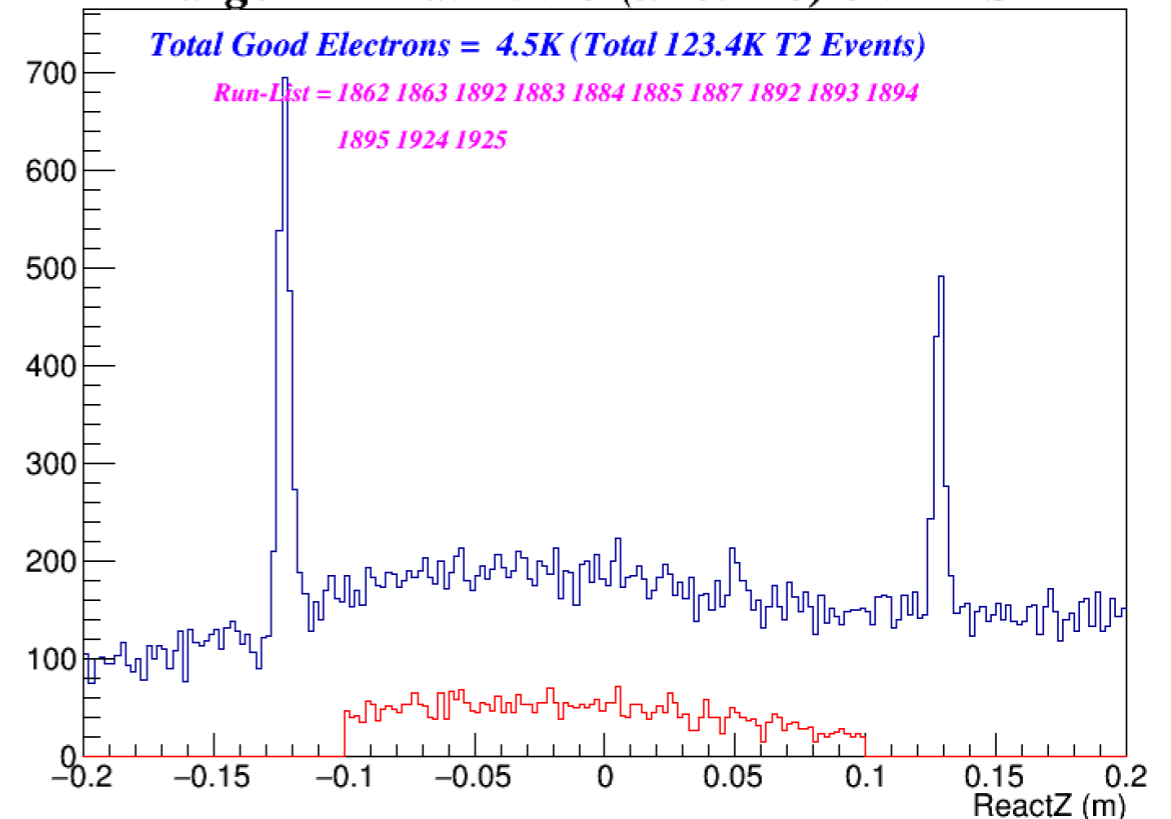
Target = He3 at Kin15 ($x=0.778$) on HRS-L



Target = H3 at Kin15 ($x=0.778$) on HRS-L



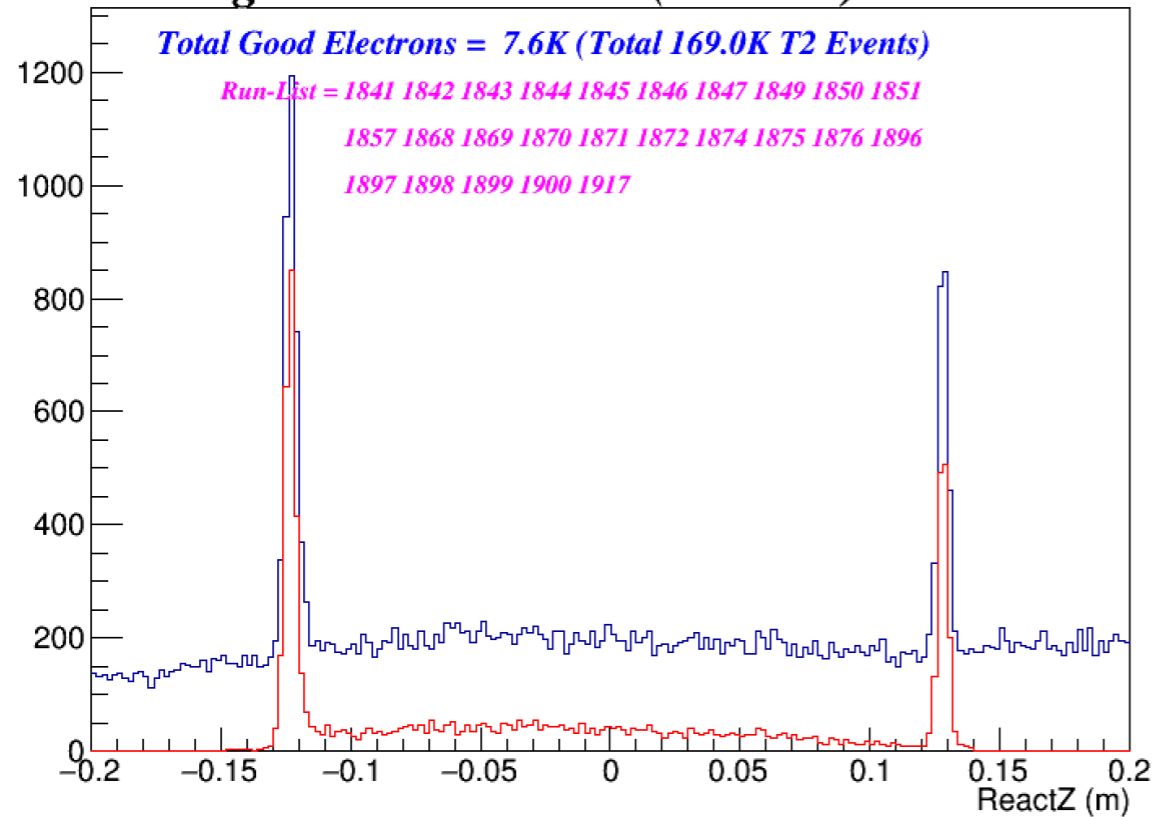
Target = D2 at Kin15 ($x=0.778$) on HRS-L



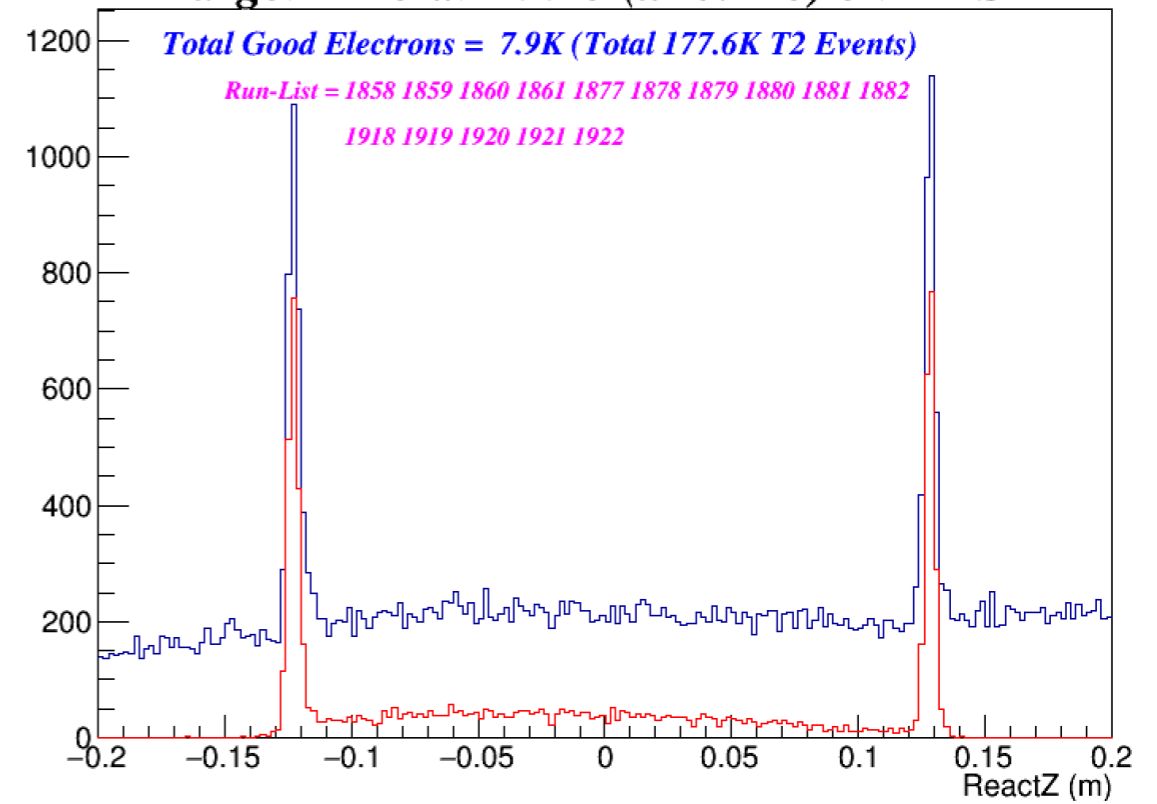
- Not much progress since last week however we hope to be over the rough part of machine tuning and get back to regular production

Good electrons so far

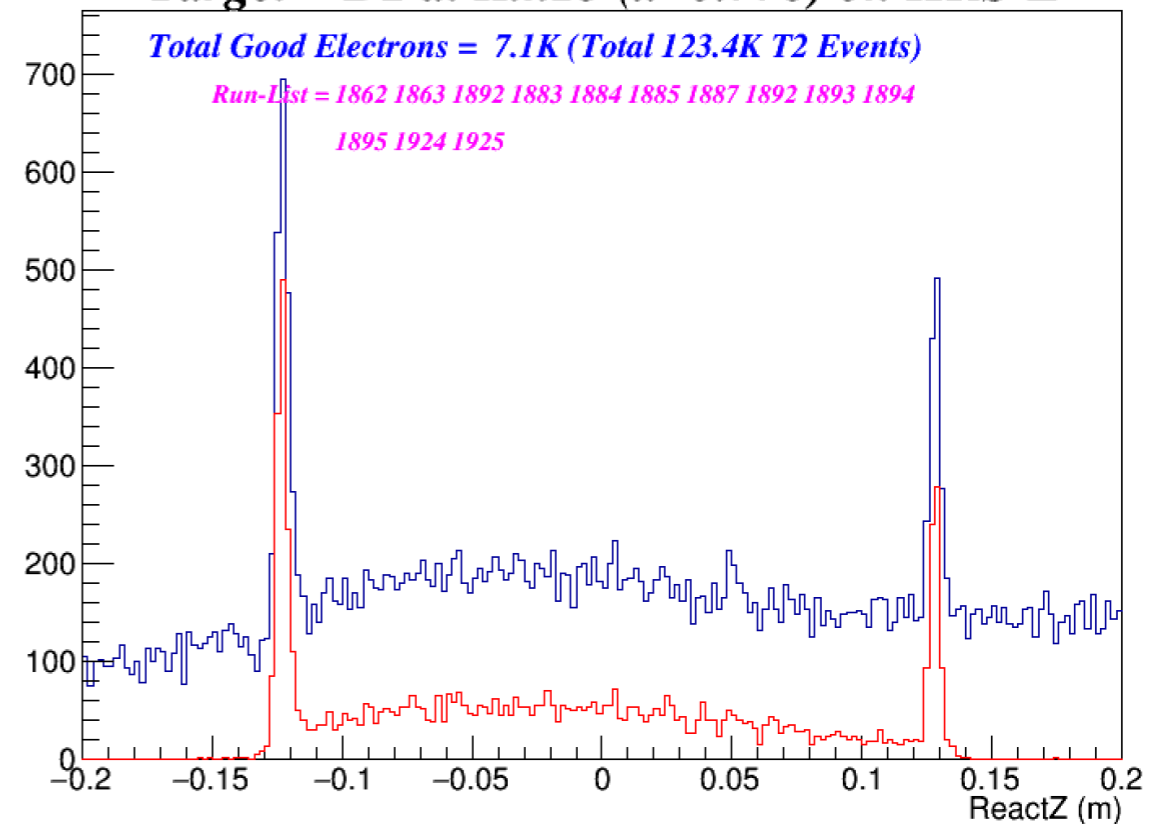
Target = He3 at Kin15 ($x=0.778$) on HRS-L



Target = H3 at Kin15 ($x=0.778$) on HRS-L



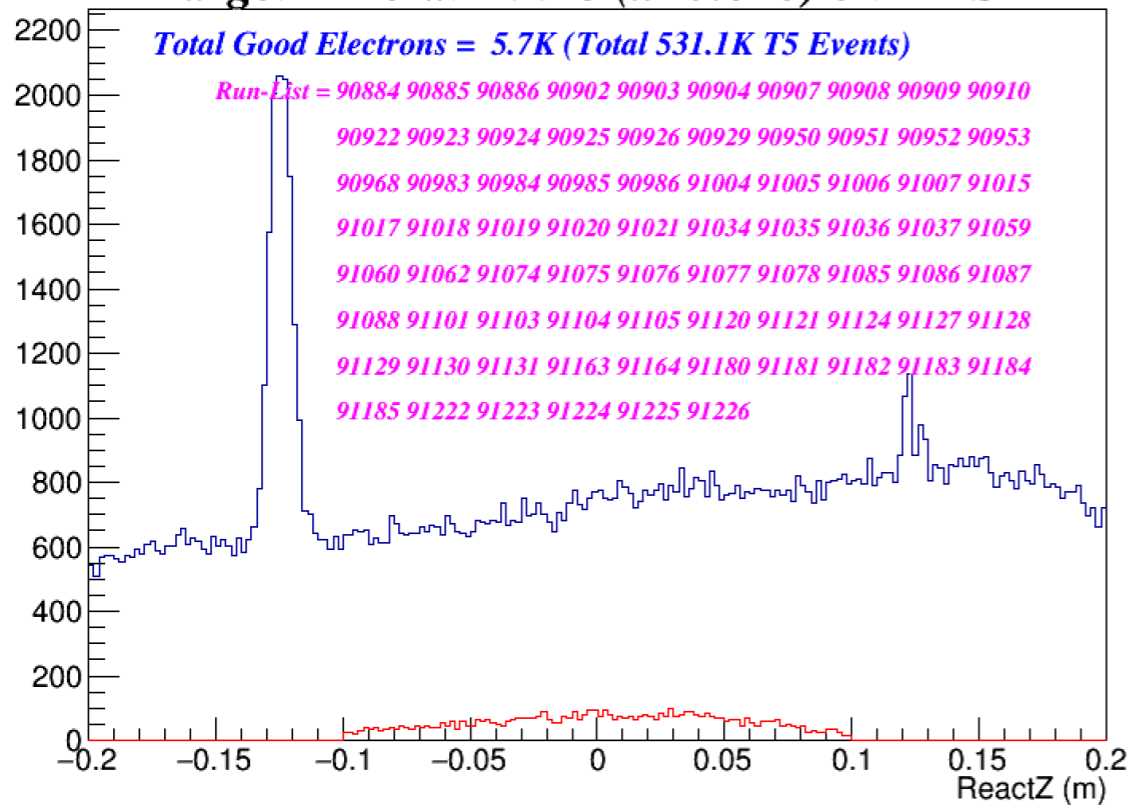
Target = D2 at Kin15 ($x=0.778$) on HRS-L



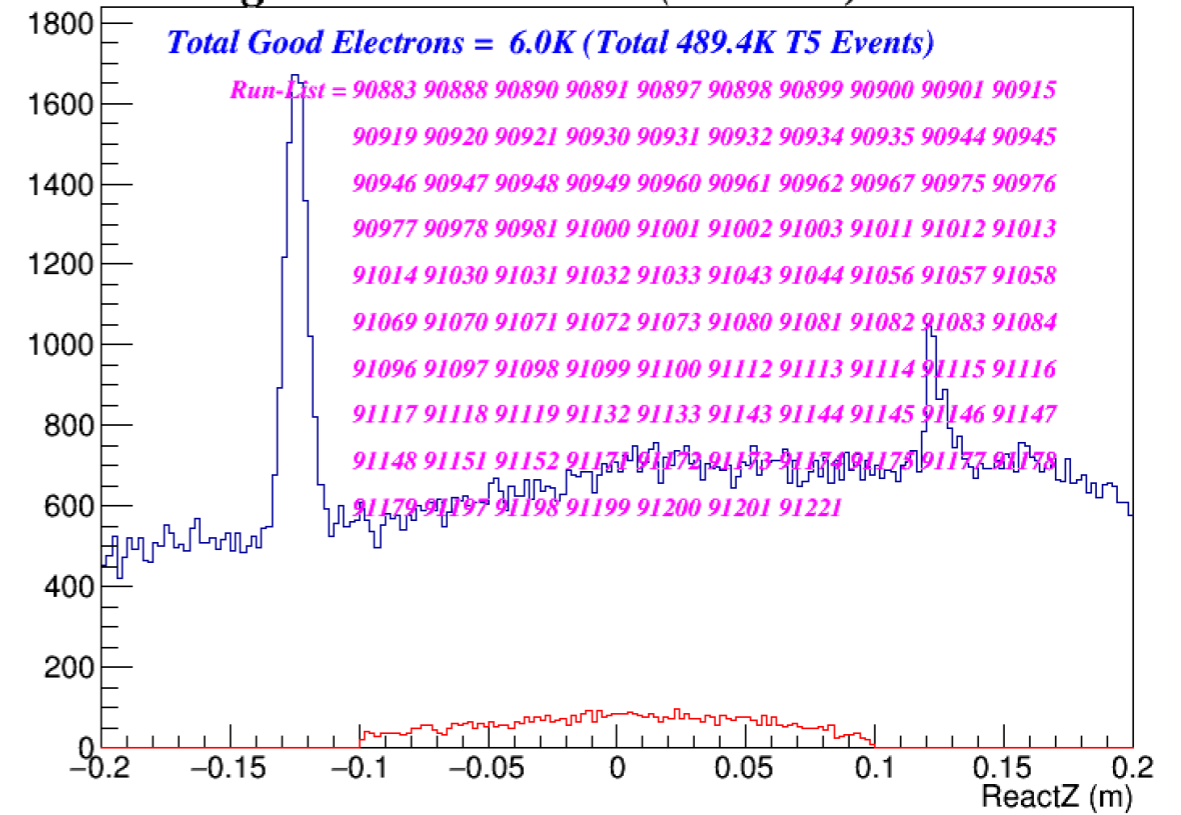
- Not much progress since last week however we hope to be over the rough part of machine tuning and get back to regular production
- Removing the z cut doesn't show events reconstructed outside of the target

Good electrons so far

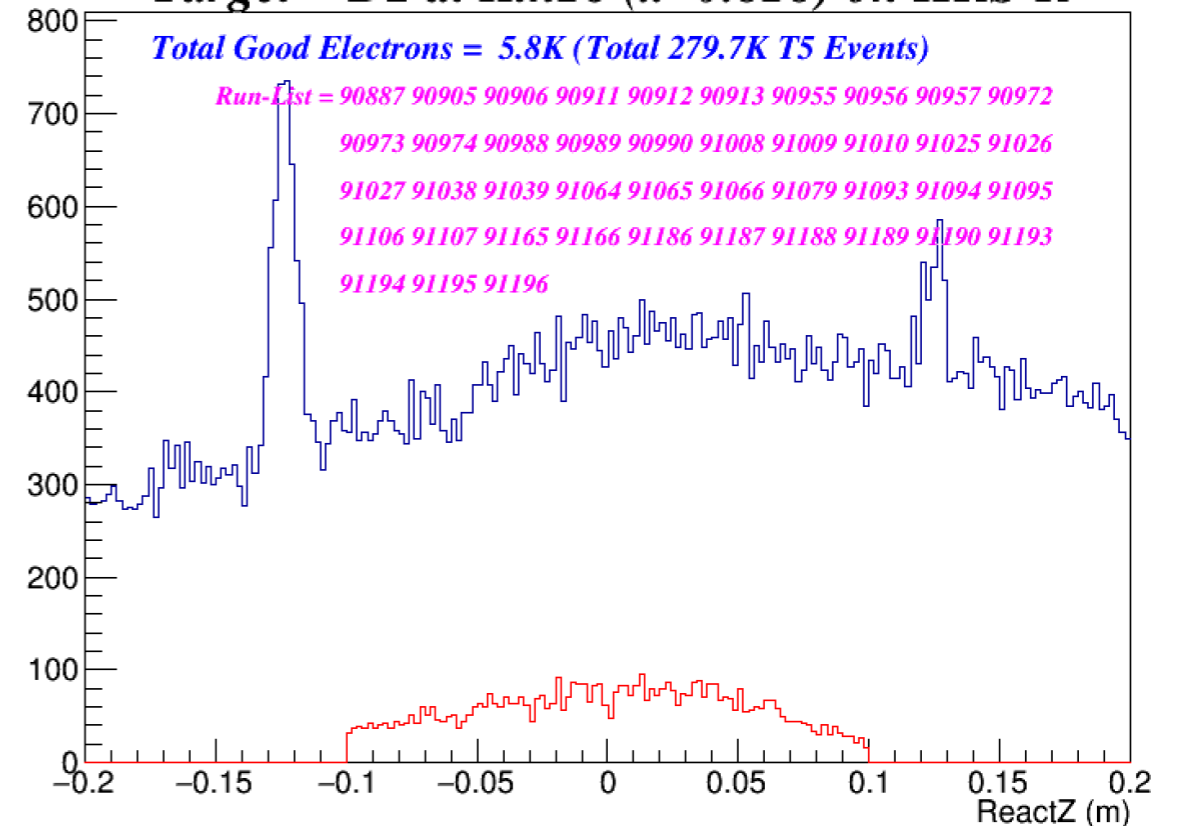
Target = H3 at Kin16 ($x=0.818$) on HRS-R



Target = He3 at Kin16 ($x=0.818$) on HRS-R



Target = D2 at Kin16 ($x=0.818$) on HRS-R



- Kinematic point 16 is slowly collecting events