Data quality check

➢ Outline

- **Review:**

  Multi-track efficiency systematic study

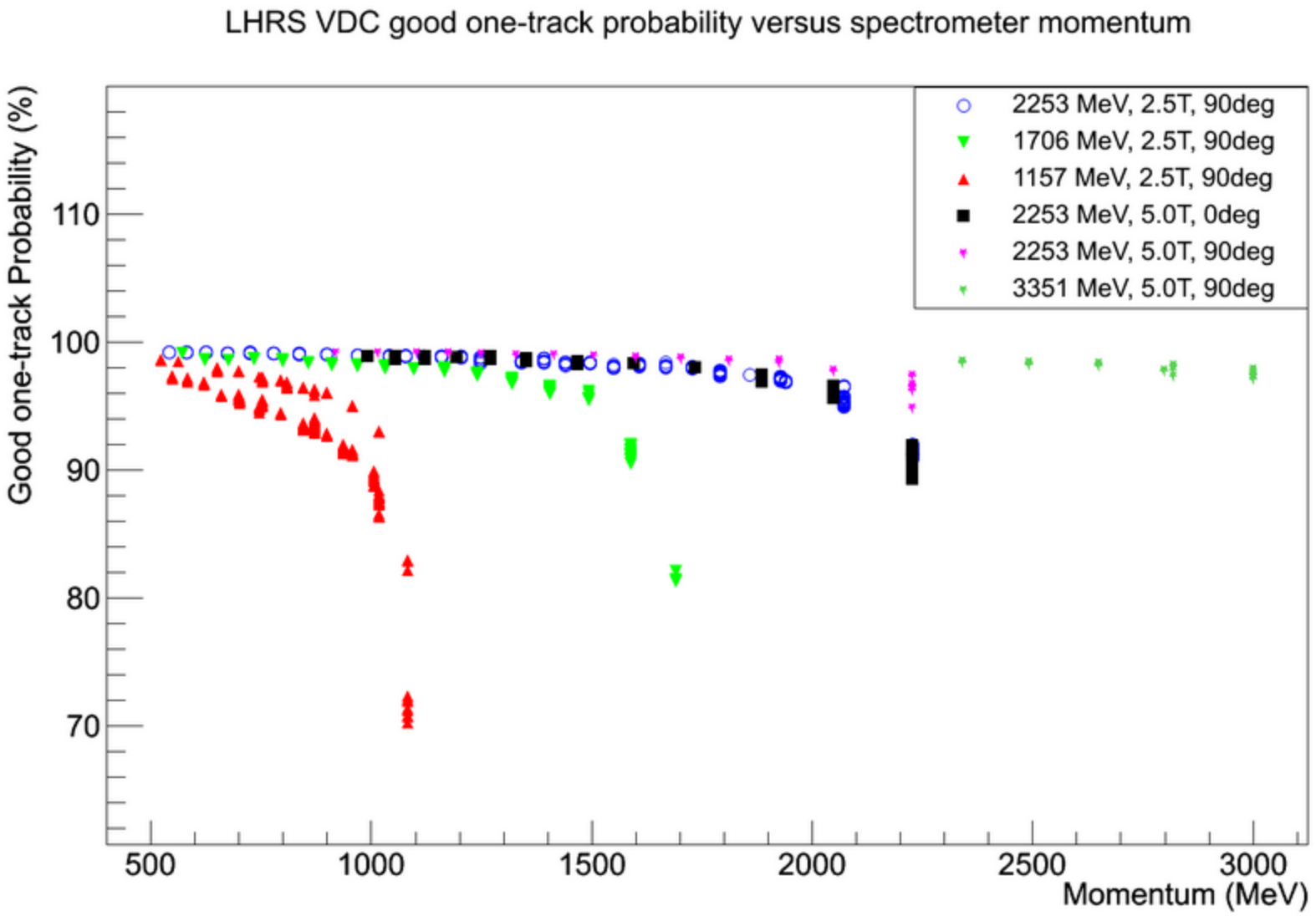
- **Optics variable data quality check:**

  a. t0

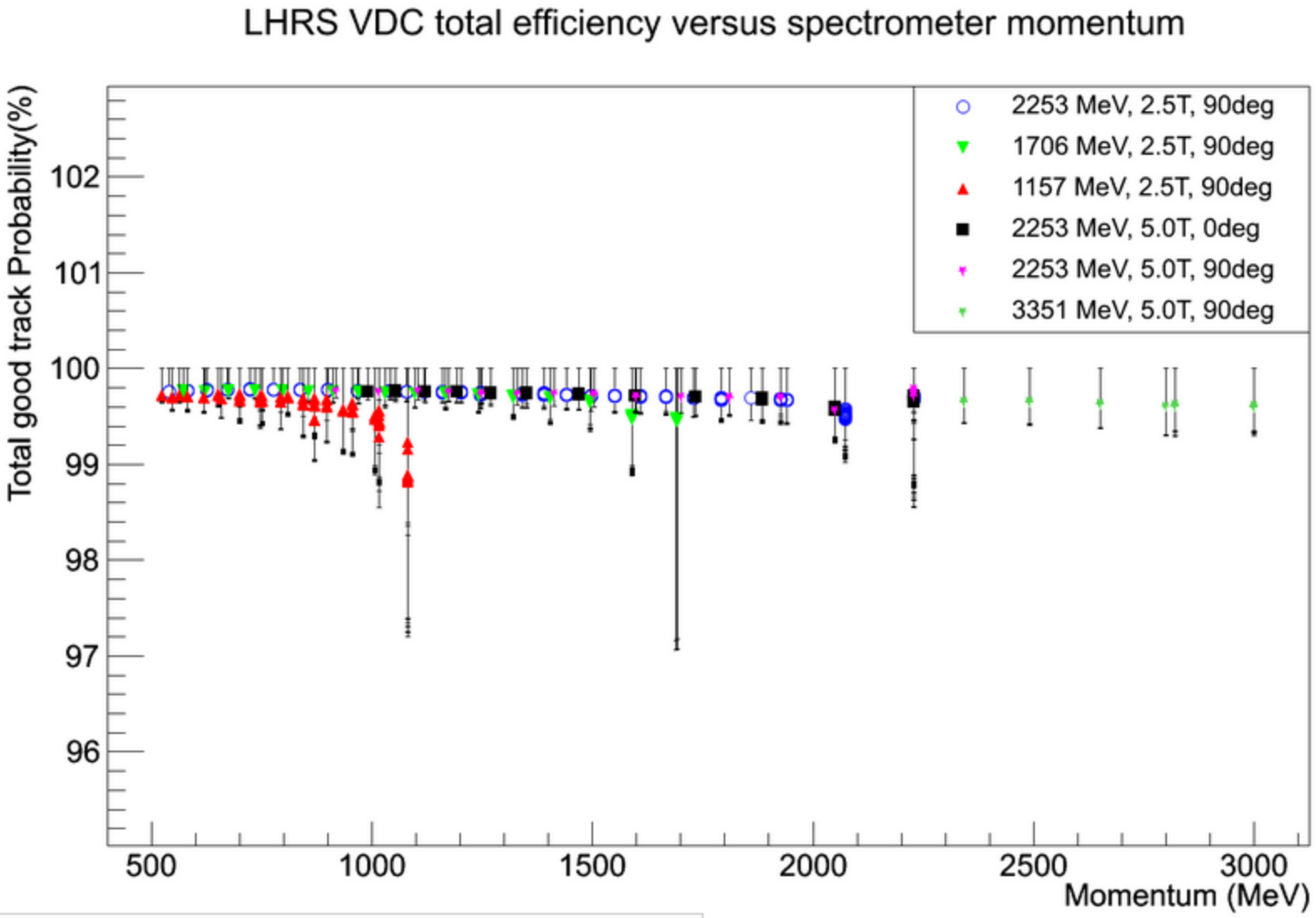
  b. L.tr.x L.tr.y L.tr.th L.tr.ph L.tr.r_x L.tr.r_y L.tr.r_th L.tr.r_ph

  c. R.tr.x R.tr.y R.tr.th R.tr.ph R.tr.r_x R.tr.r_y R.tr.r_th R.tr.r_ph

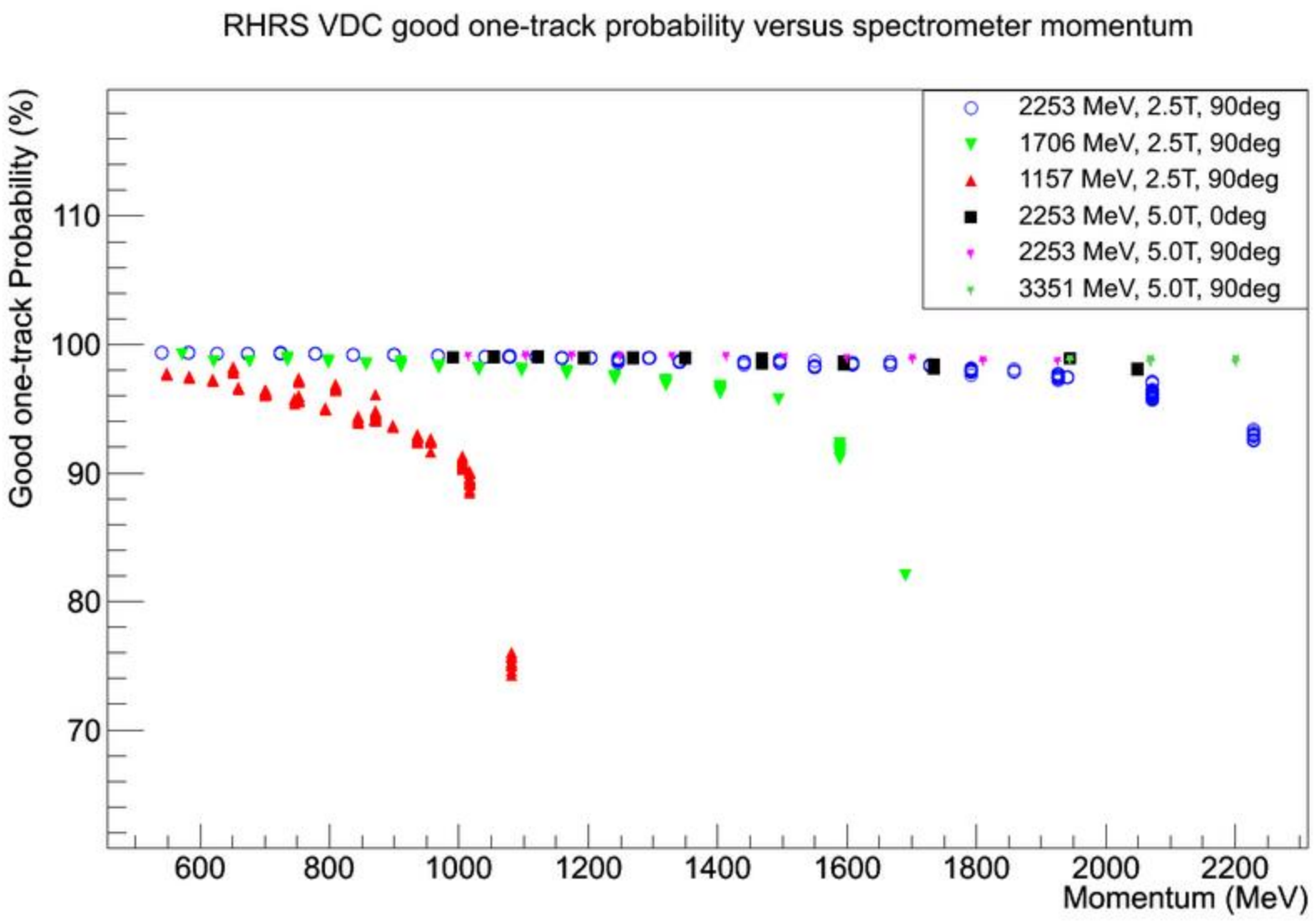
LHRS one-good-track probability



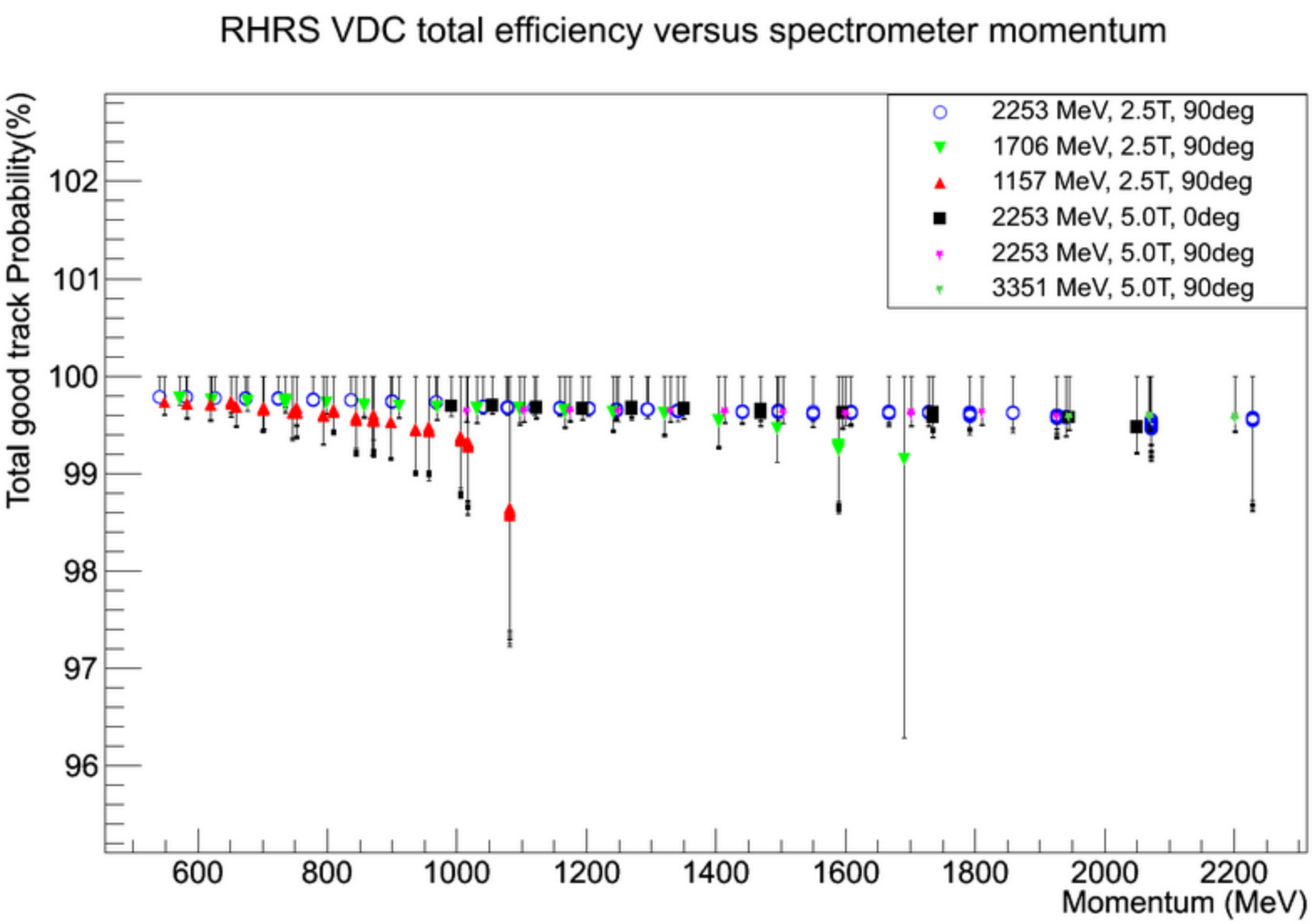
LHRS Multi-track efficiency



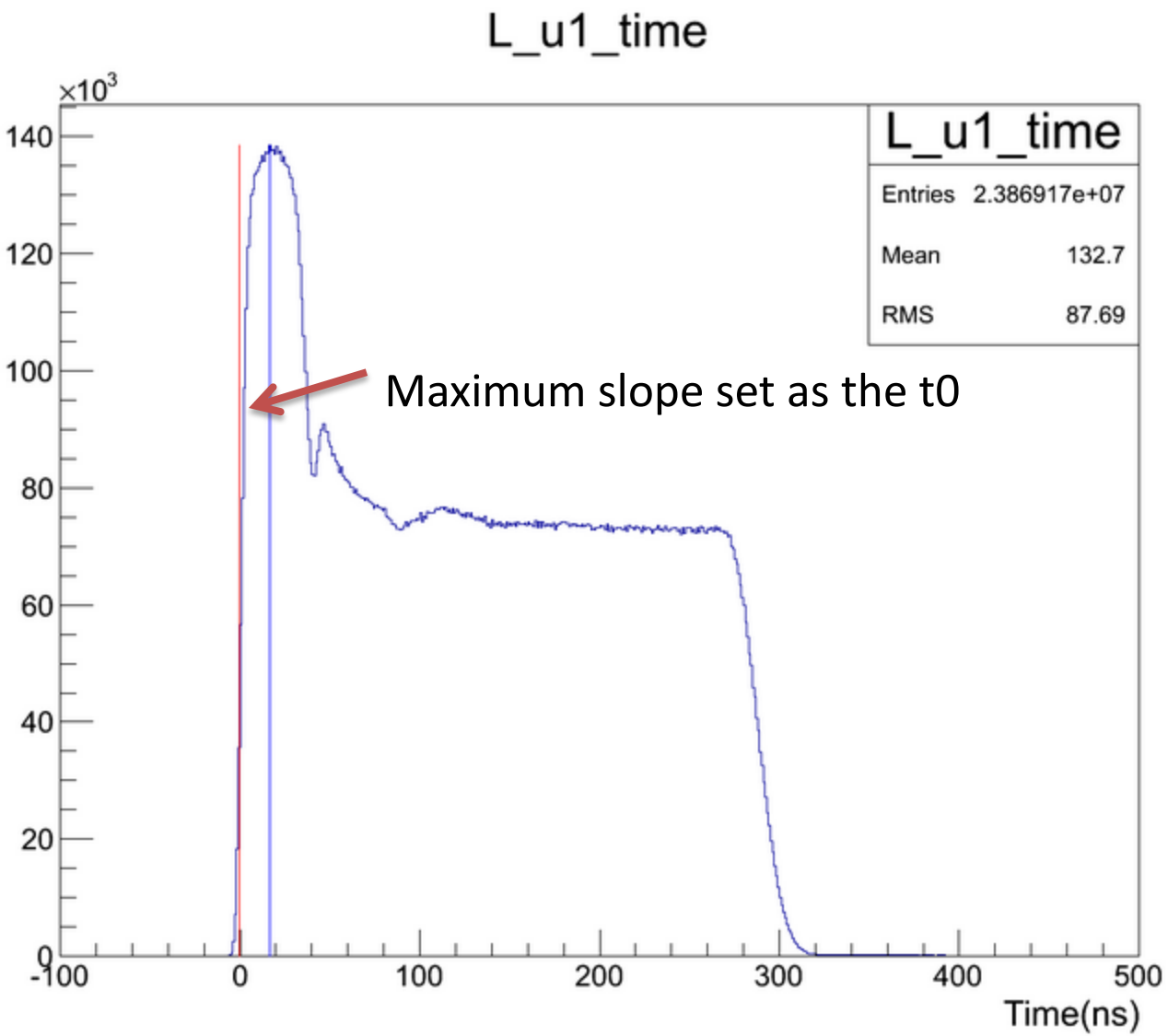
RHRS one-good-track probability



RHRS Multi-track efficiency

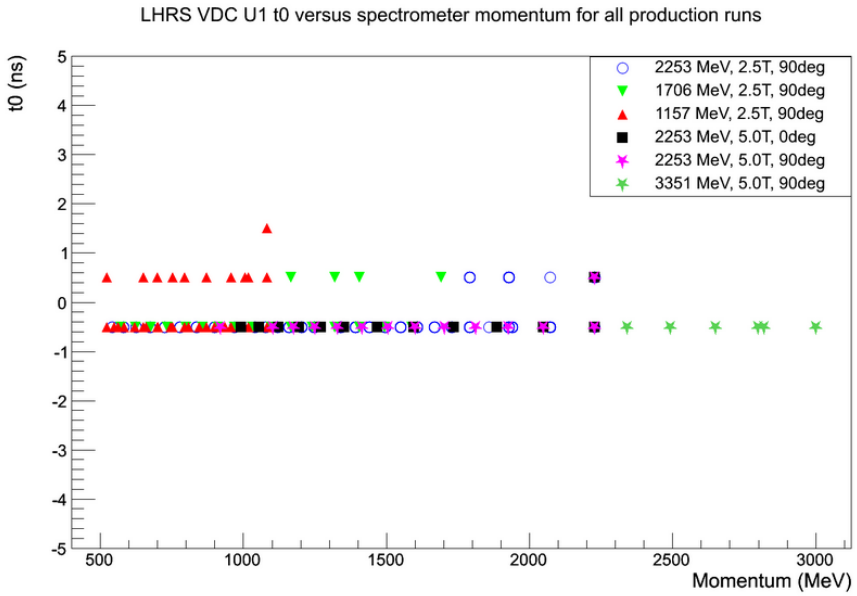


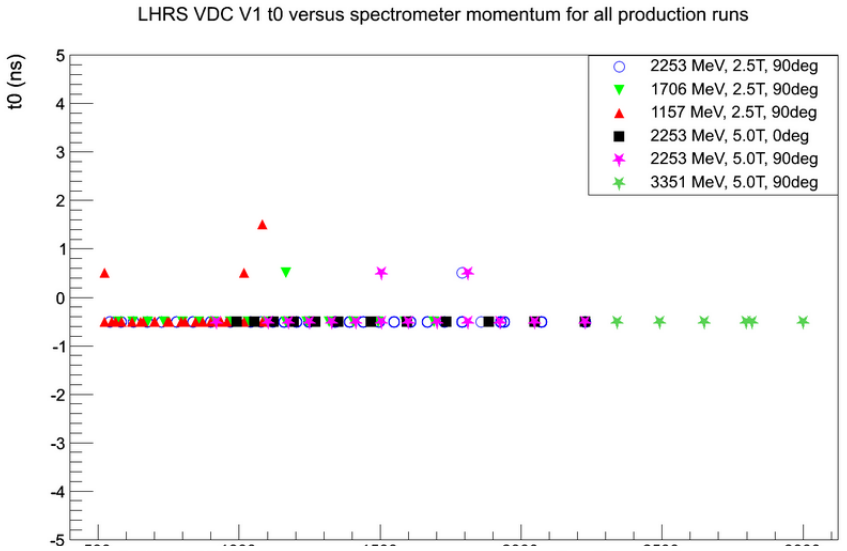
VDC t0 quality check

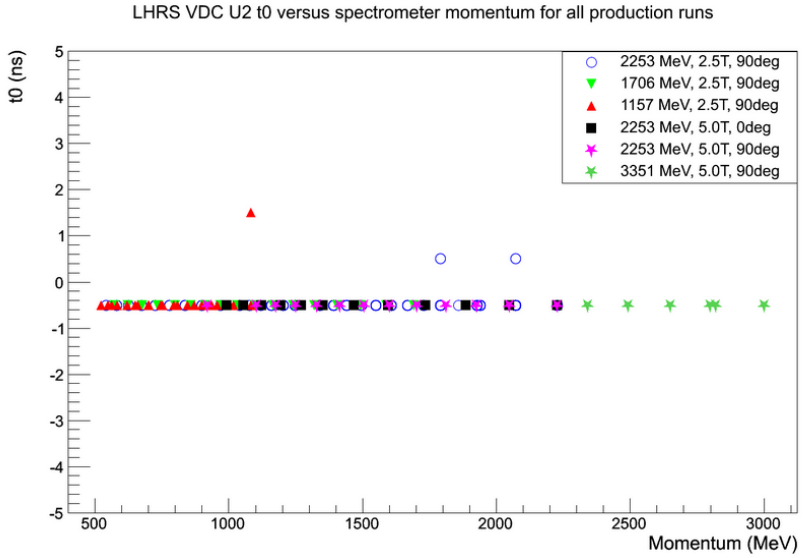


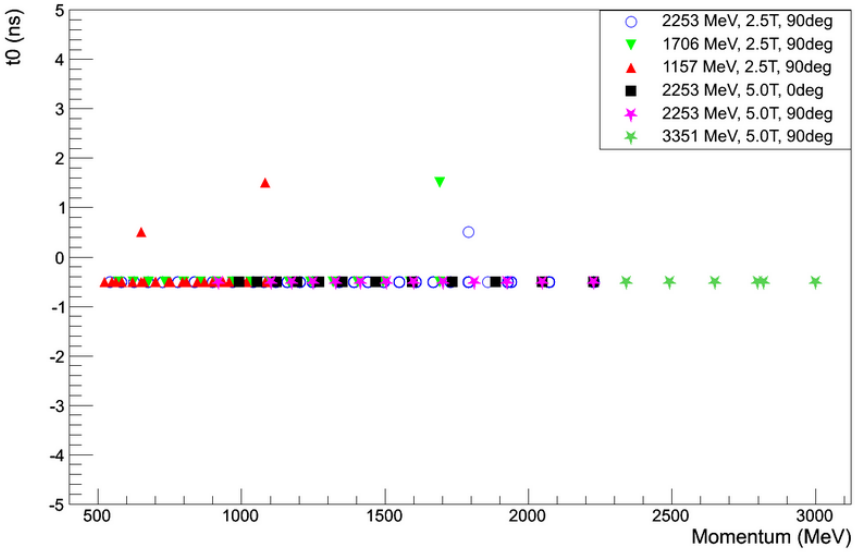
Sample: choose from one track with electron cut

LHRS VDC t0 quality check





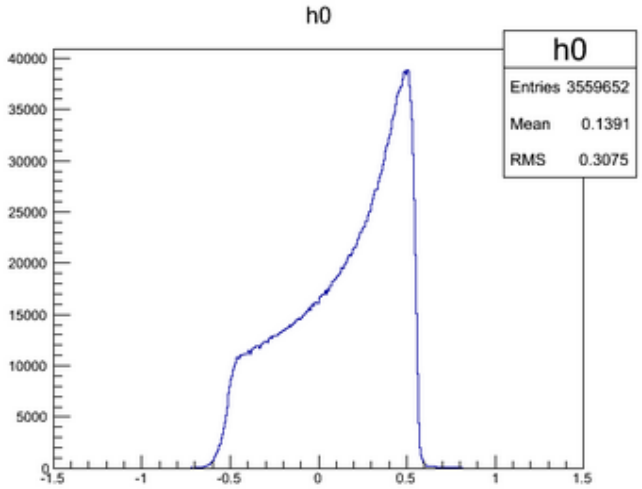




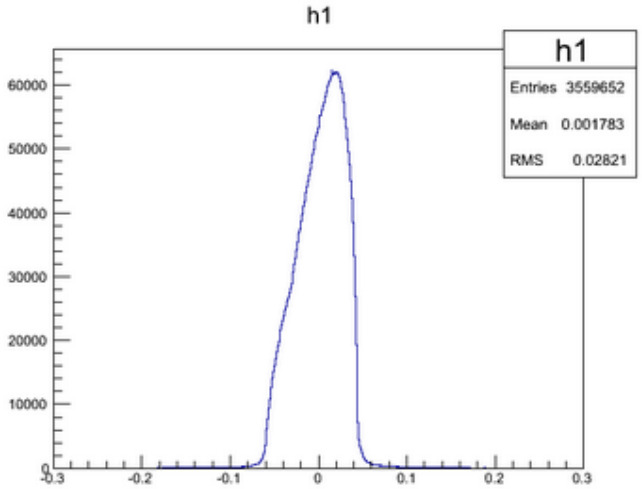
VDC T0 around 1.5 ns offset is the higher rate one

Optics variable (transport) quality check

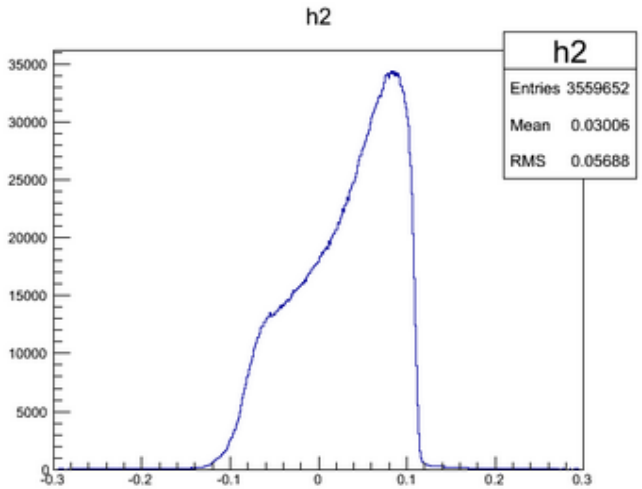
To check the histogram mean value



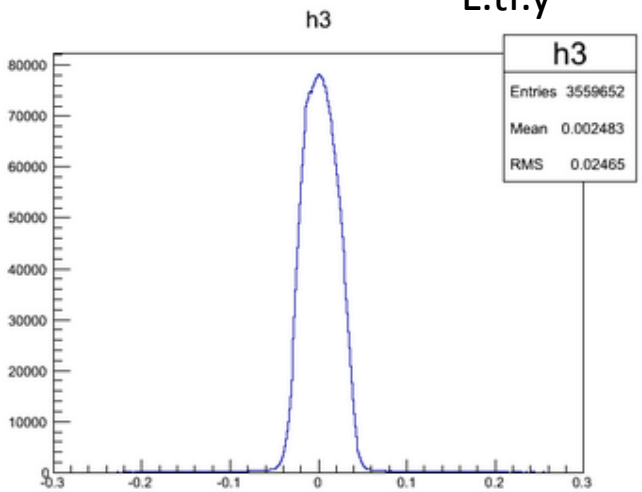
L.tr.x



L.tr.y



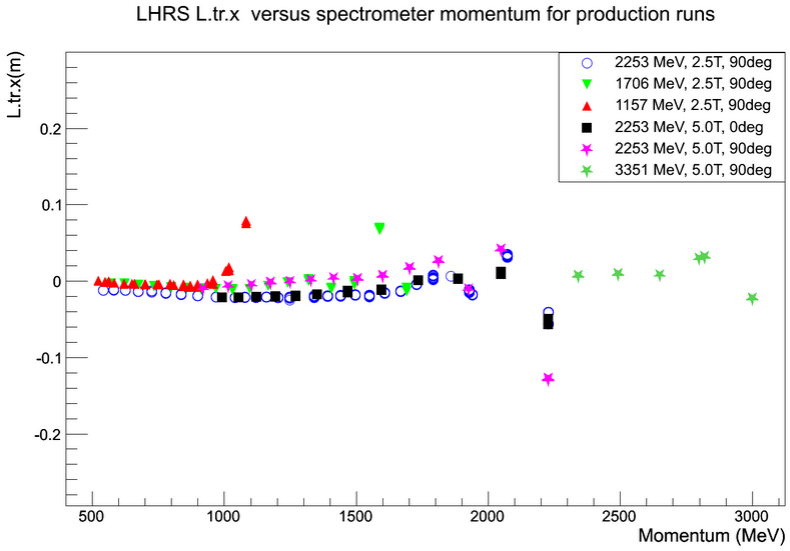
L.tr.th

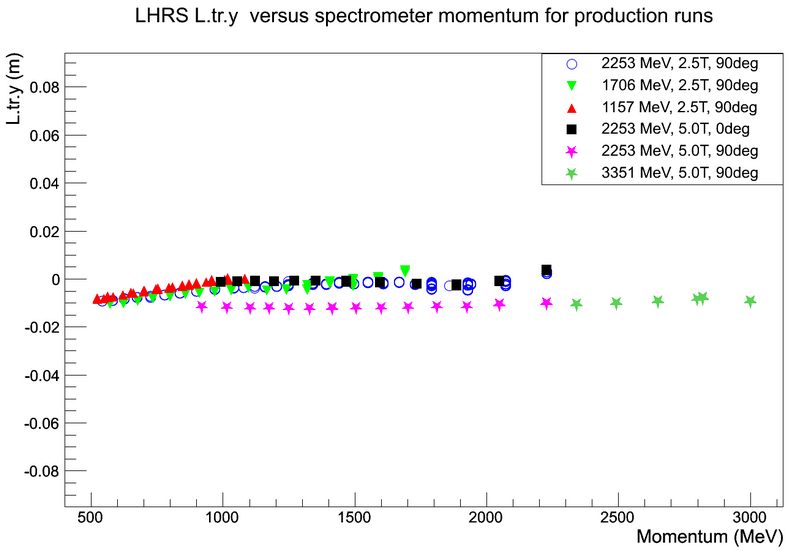


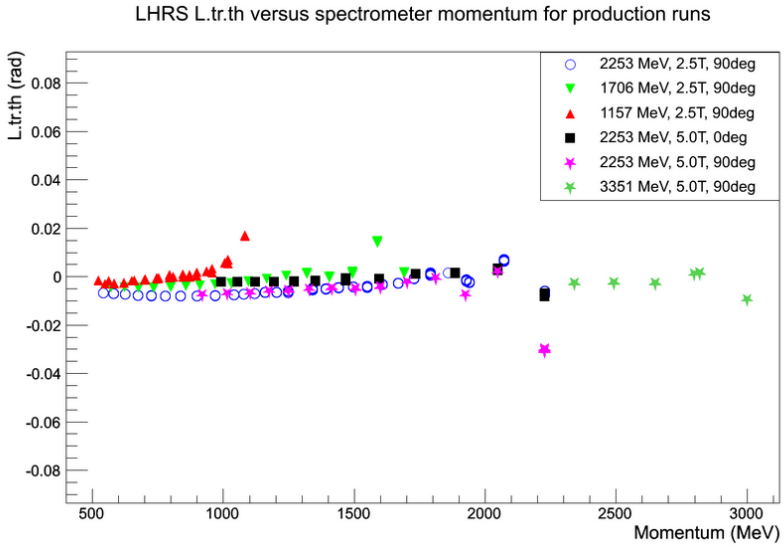
L.tr.ph

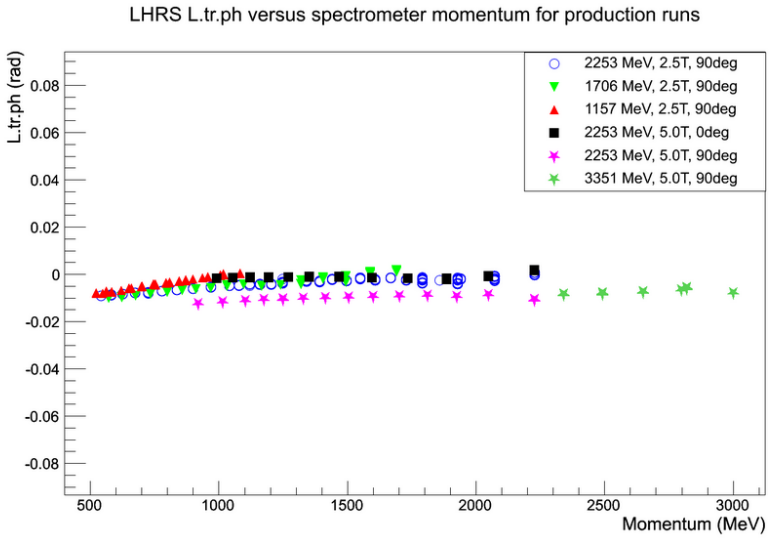
Sample: choose from one track with electron cut+ acceptance cut

LHRS optics variable (transport) quality check



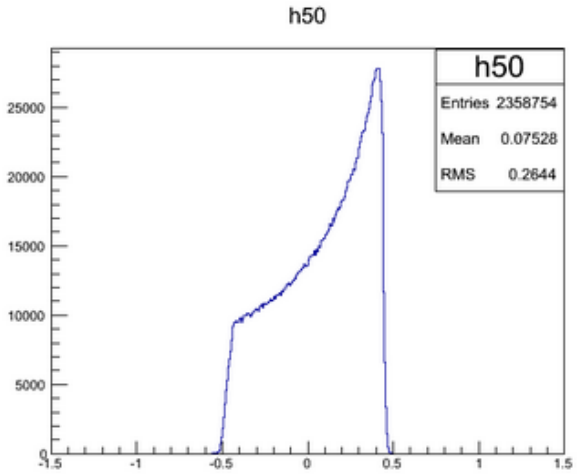




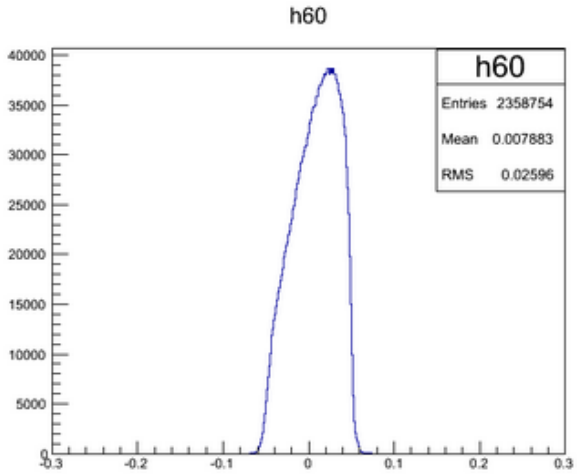


Optics variable (rotated) quality check

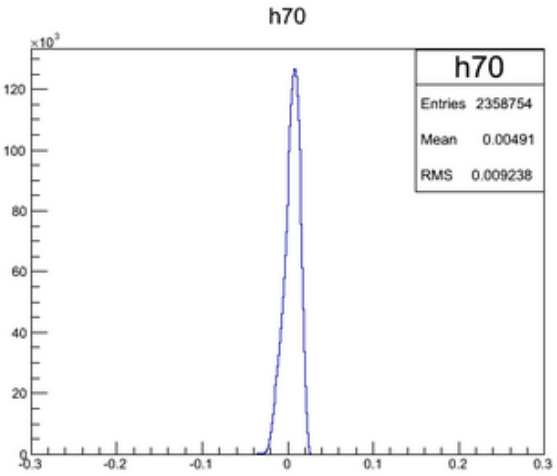
To check the histogram mean value



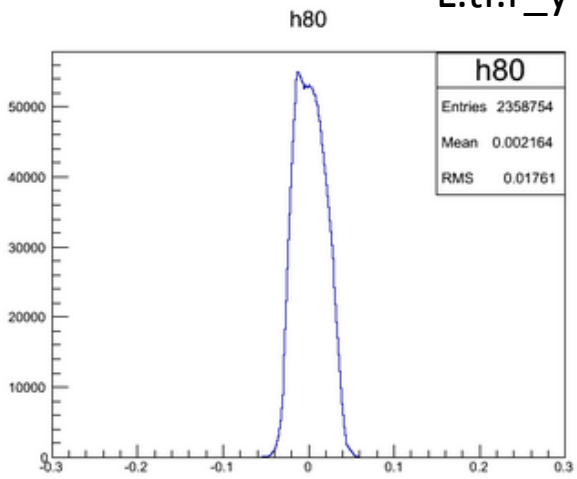
L.tr.r_x



L.tr.r_y



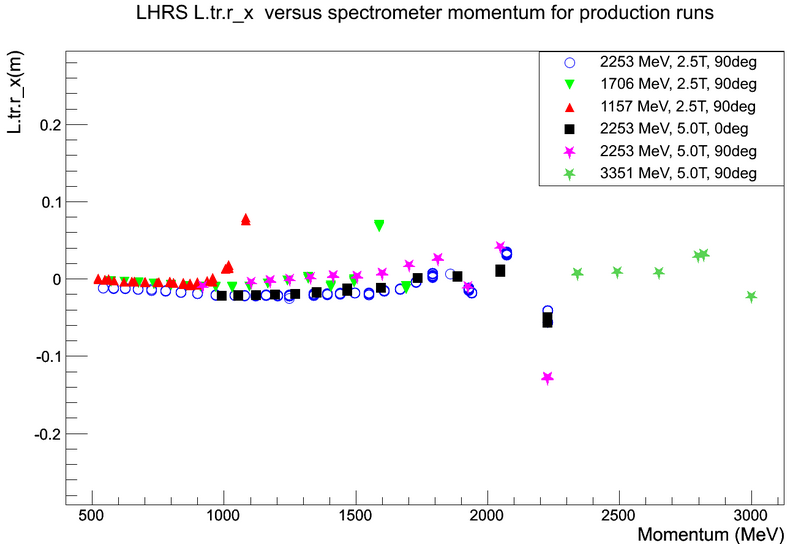
L.tr.r_th

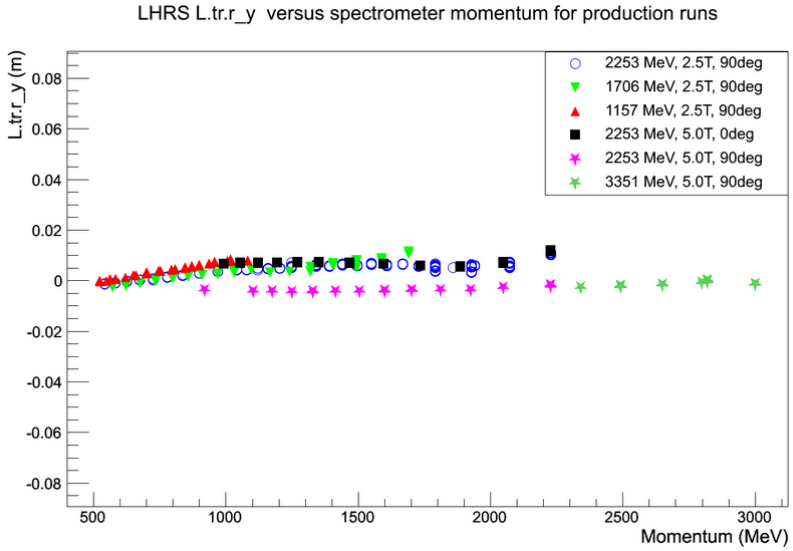


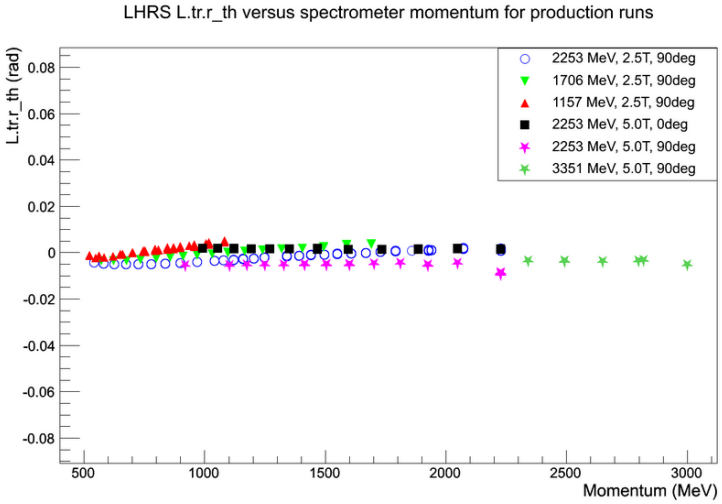
L.tr.r_ph

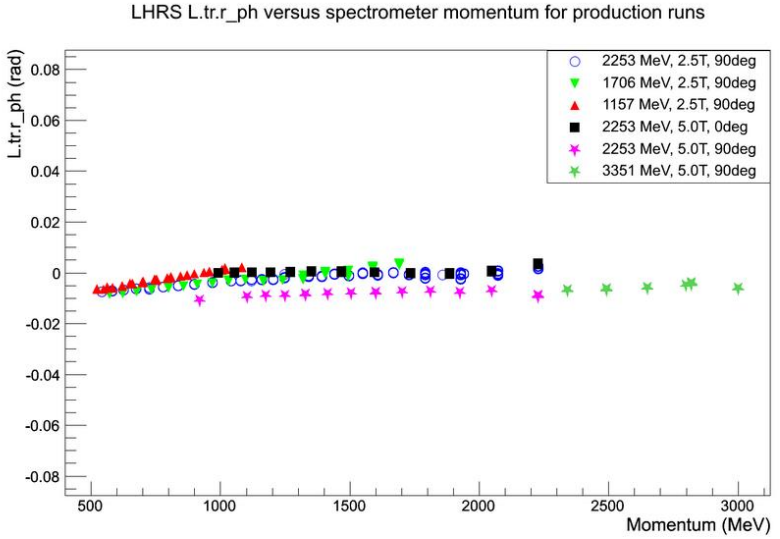
Sample: choose from one track with electron cut+ acceptance cut

LHRS optics variable (det) quality check

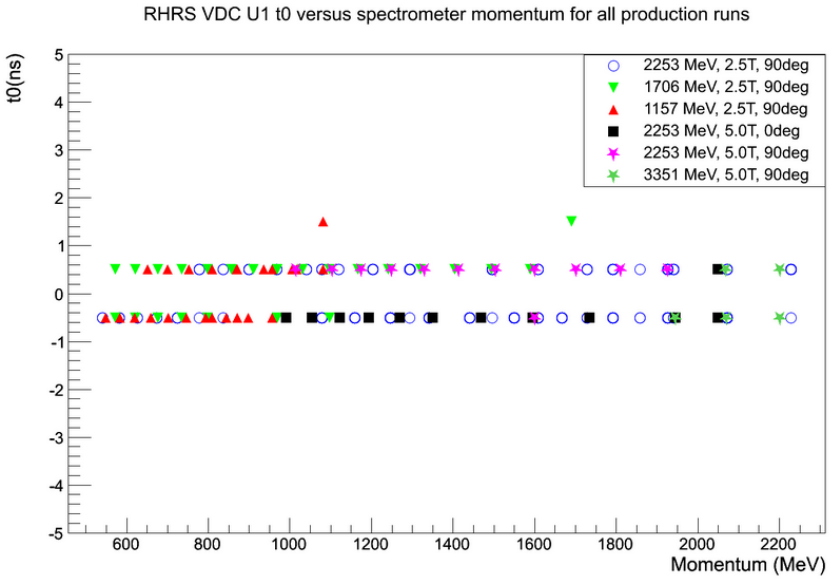


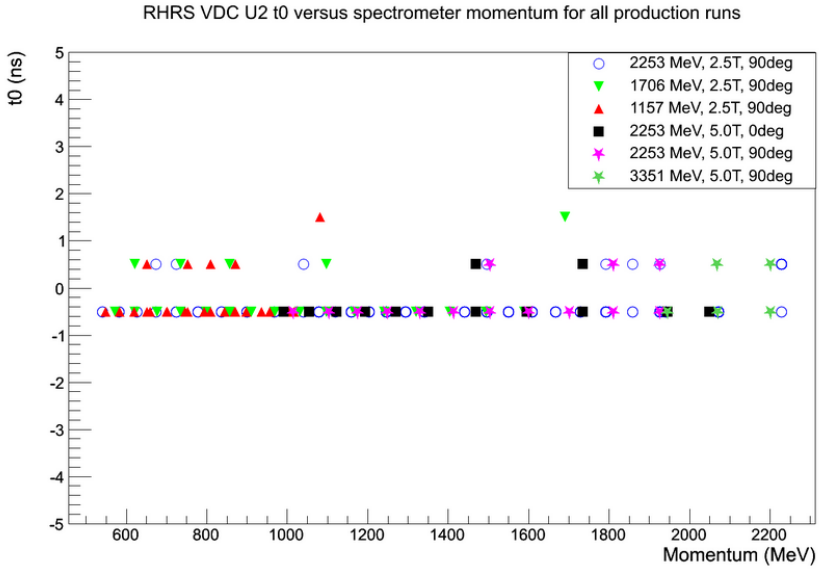


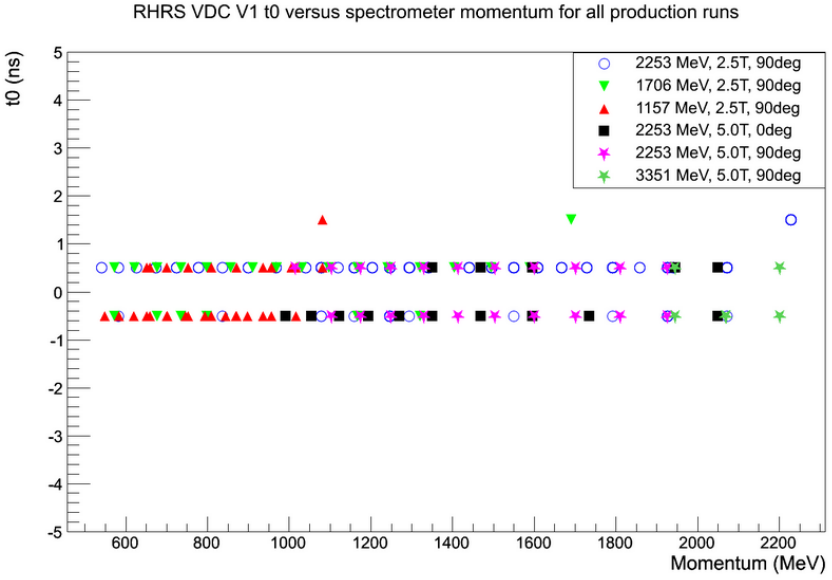


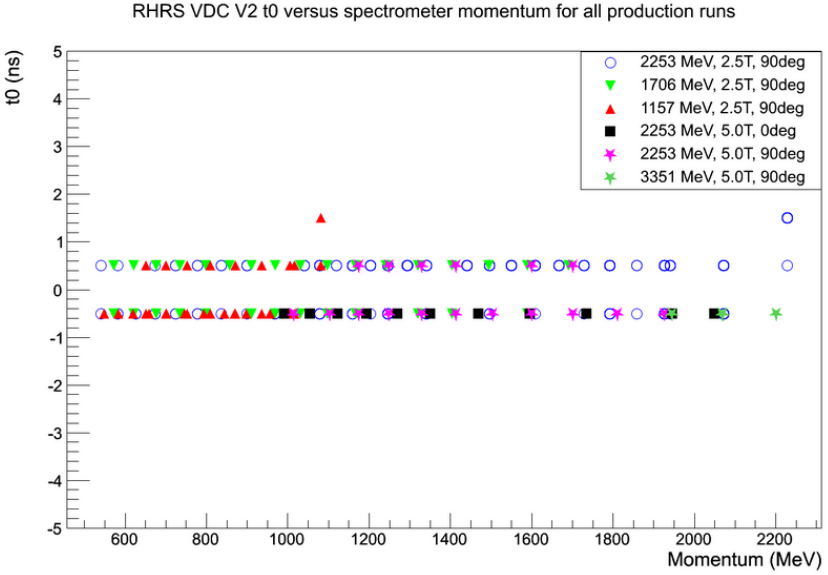


RHRS VDC t0 quality check



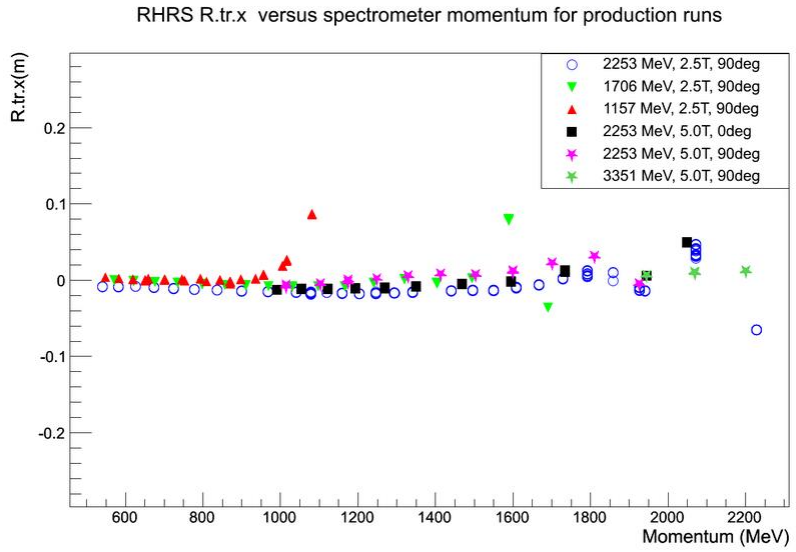


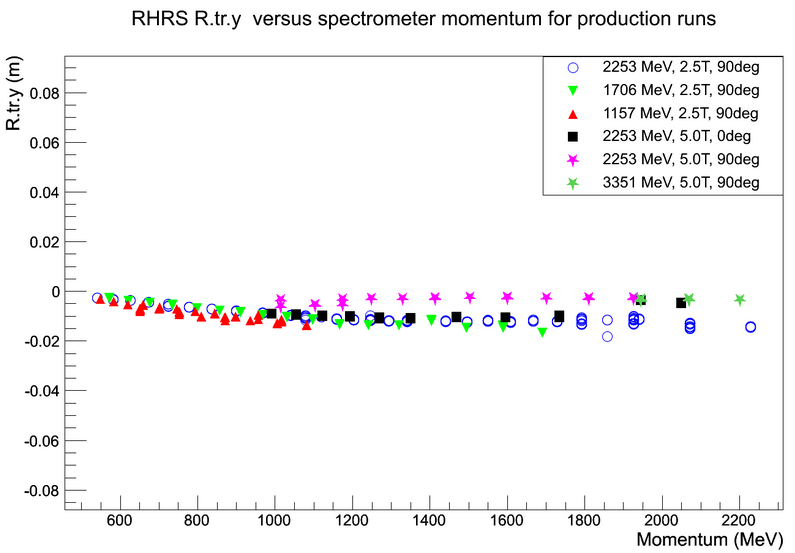


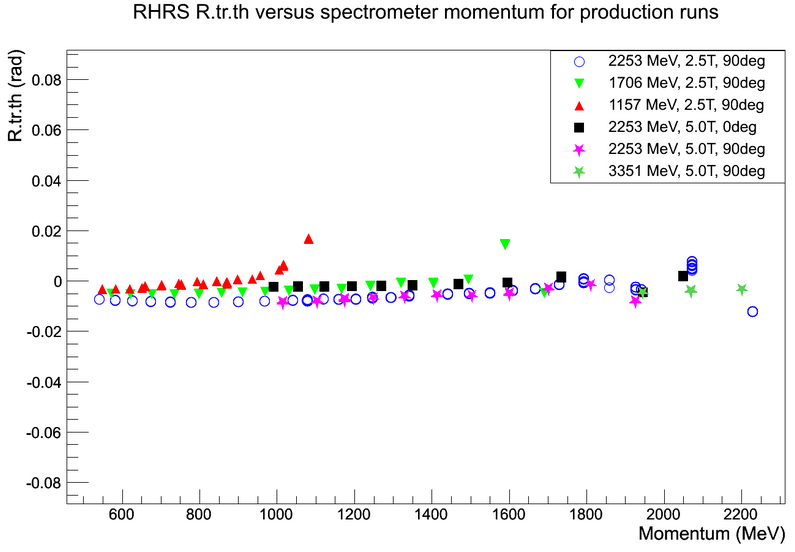


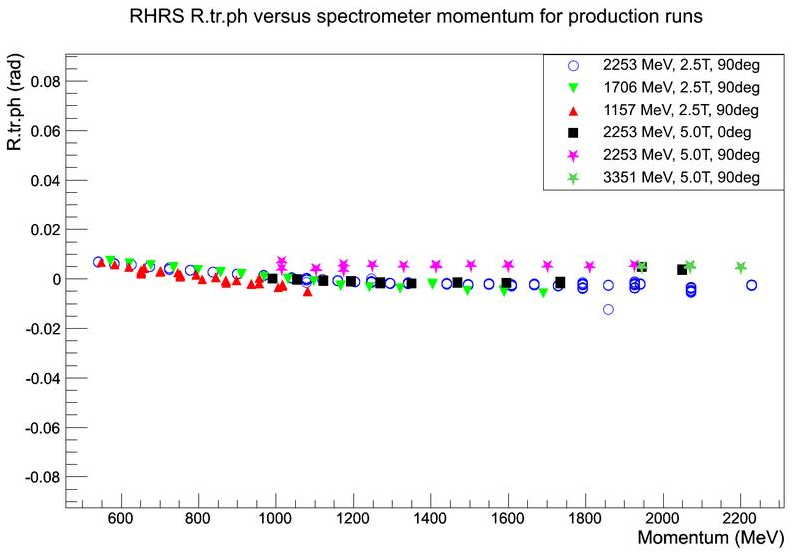
VDC t0 around 1.5 ns offset is the higher rate one

RHRS optics variable (transport) quality check

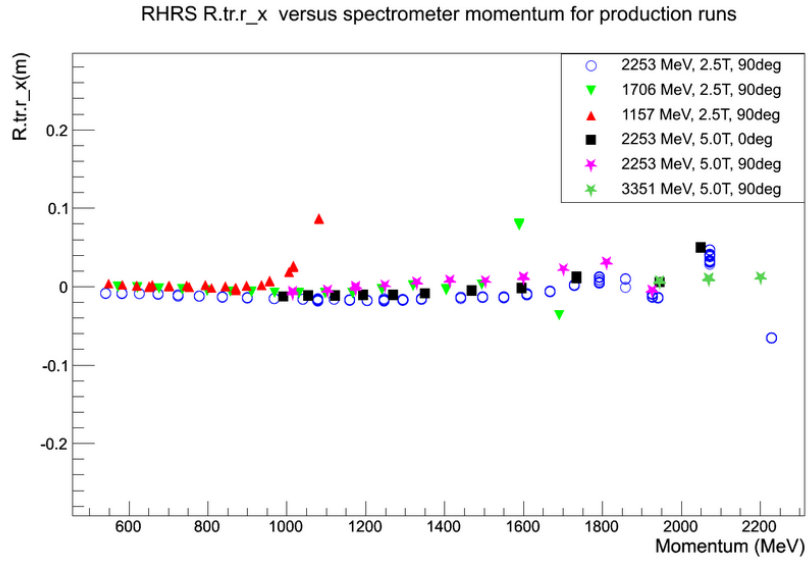


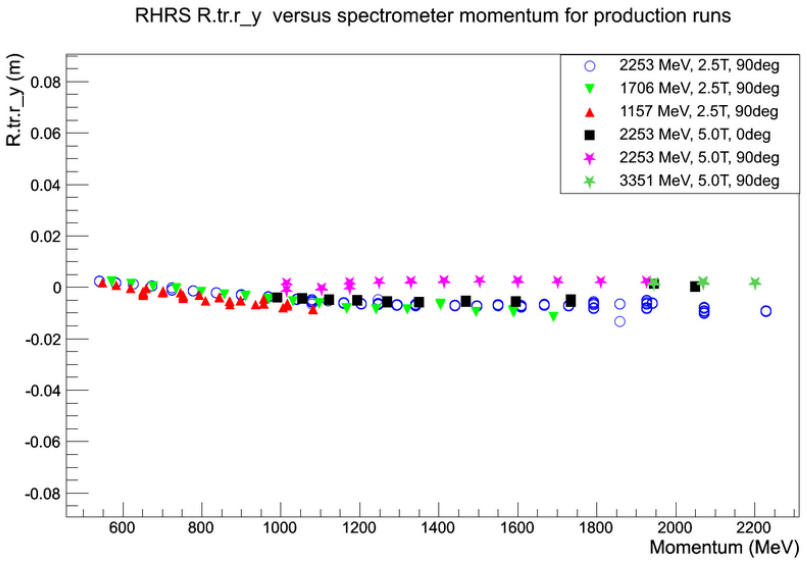


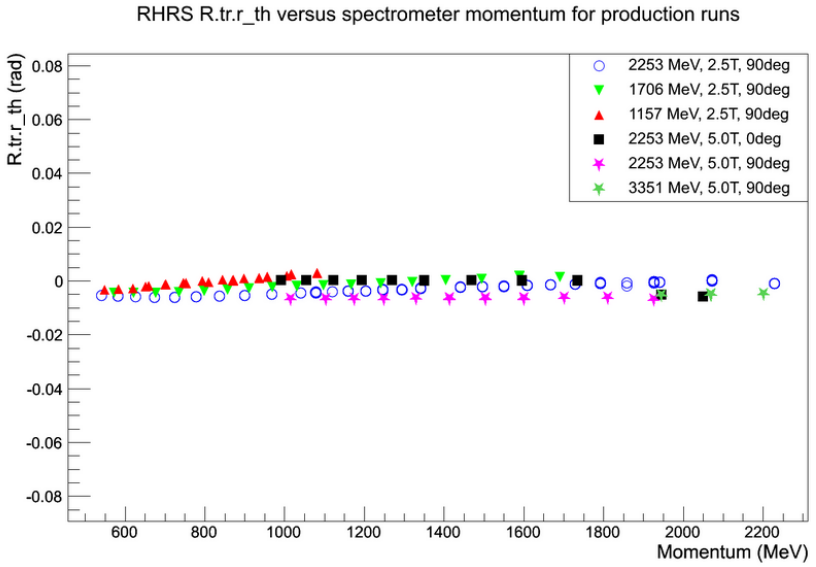


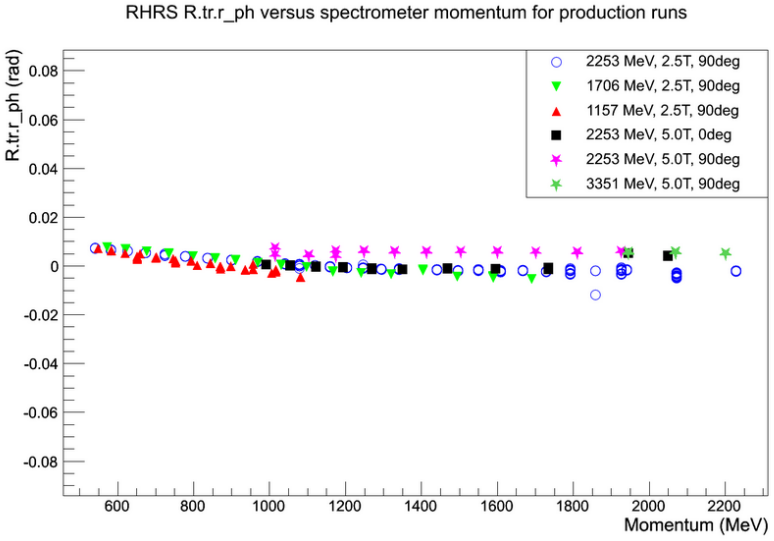


RHRS optics variable (rotated) quality check









Summary

- All production runs are plotted in all Figures above, except:
  - LHRS: 6 runs
  - RHRS: 17 runs
  - All within Melissa's question runs
  - Theses runs' multi-track efficiency available

- Packing fraction runs not plotted

- Next work: Elastic runs?