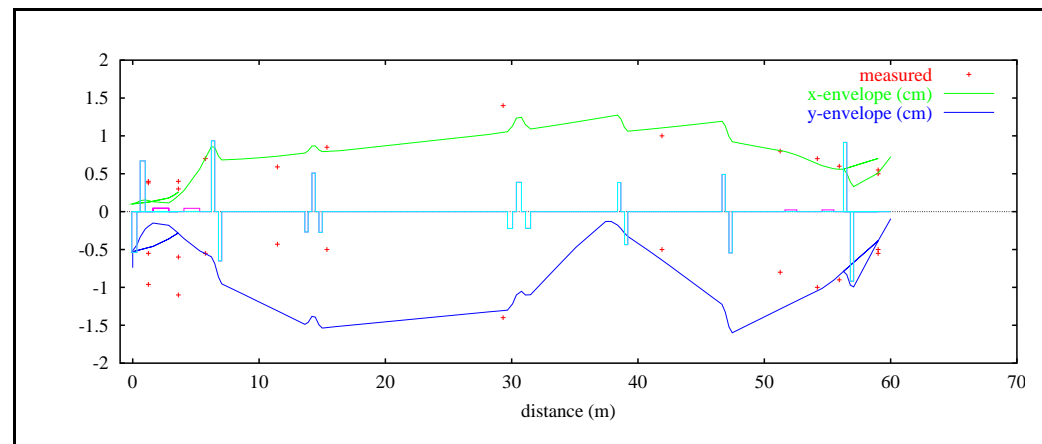


Work on BL2A

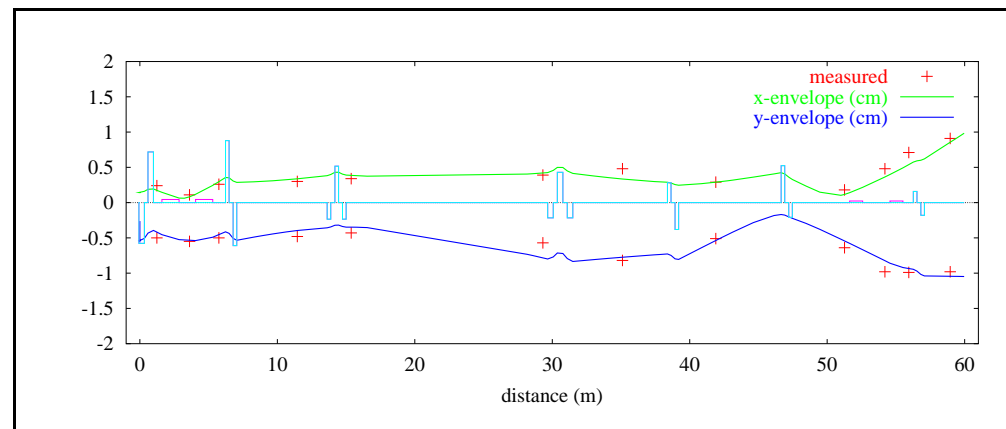
We have

- discovered and corrected a large error in the cyclotron stripper-to-combination-magnet transfer matrix,
- fitted the initial conditions at the foil and gotten good agreement between calculated and measured beam sizes.

Old:

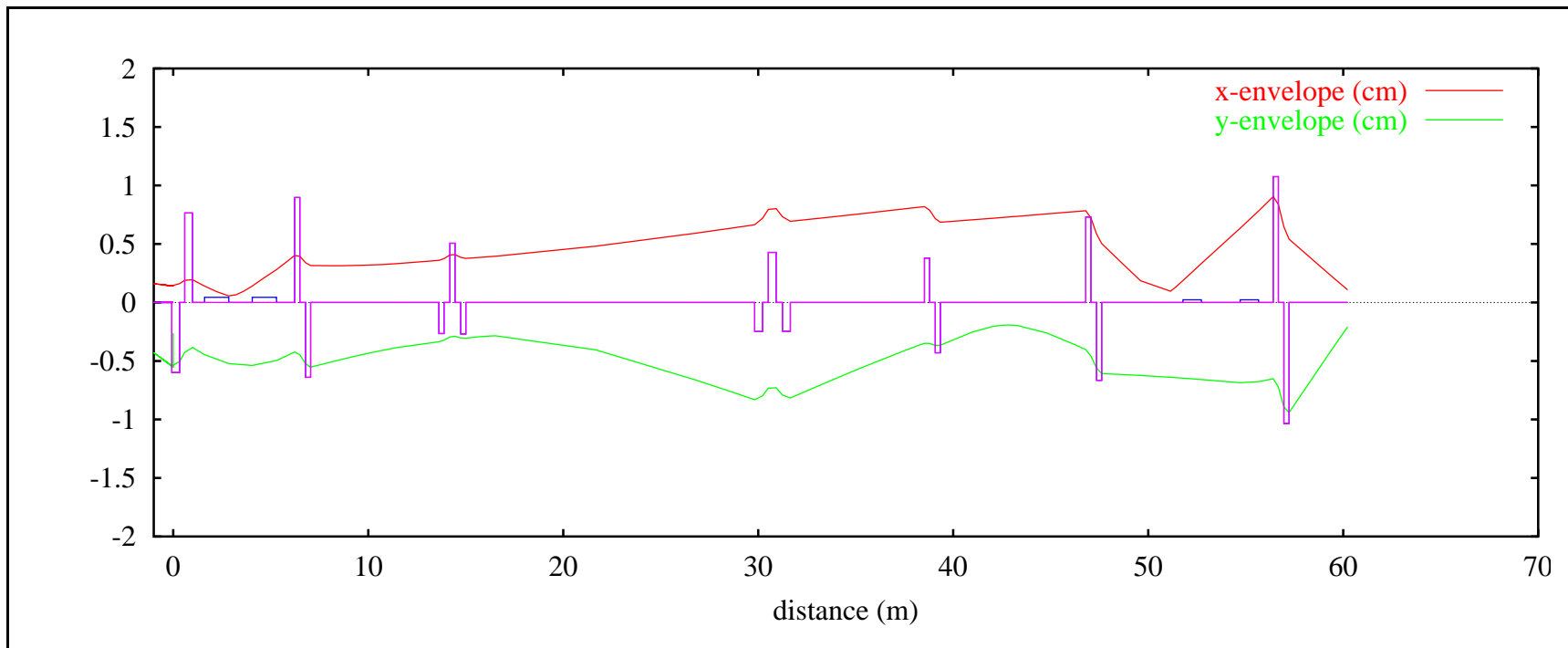


New:

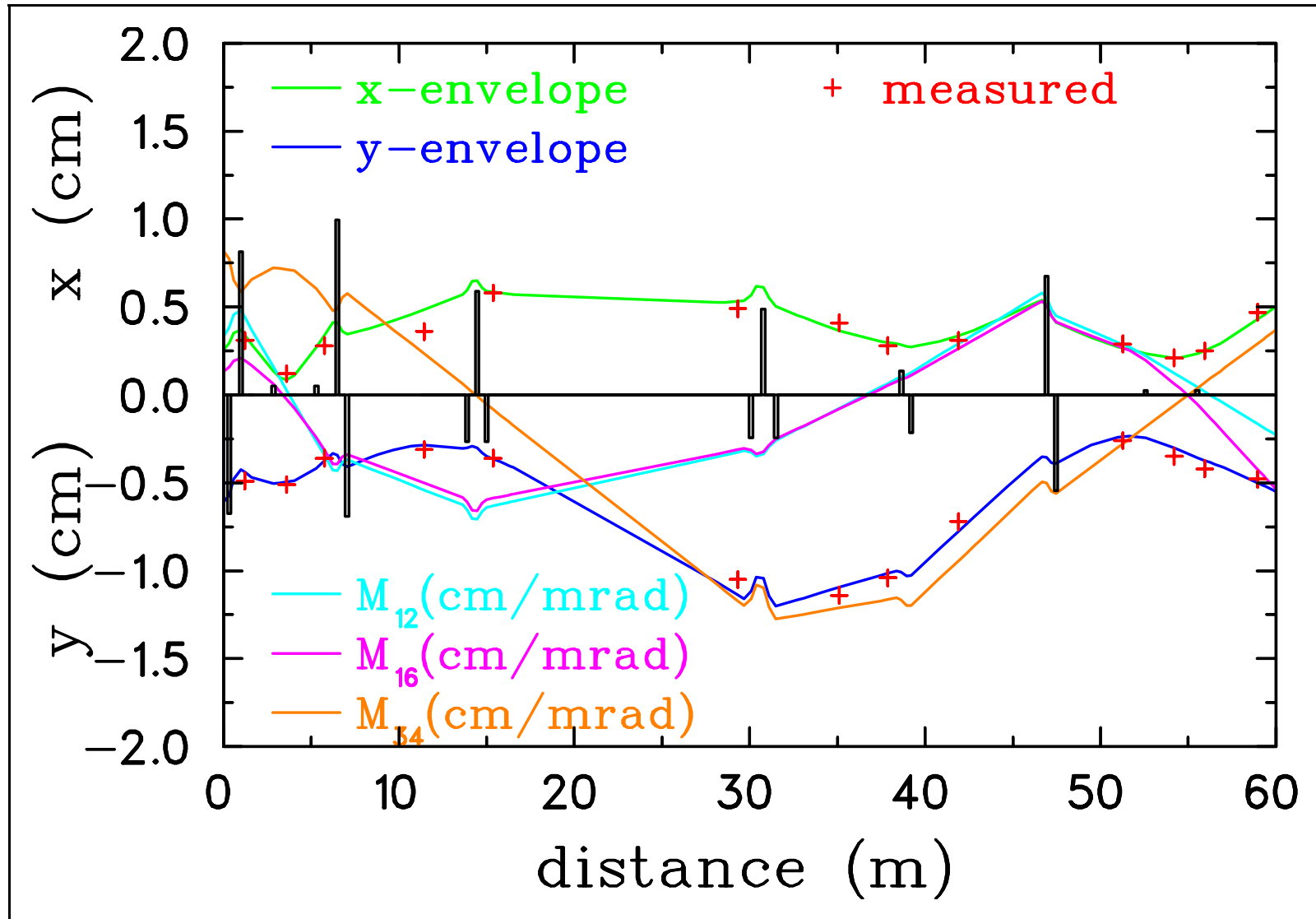


Developed operational tune

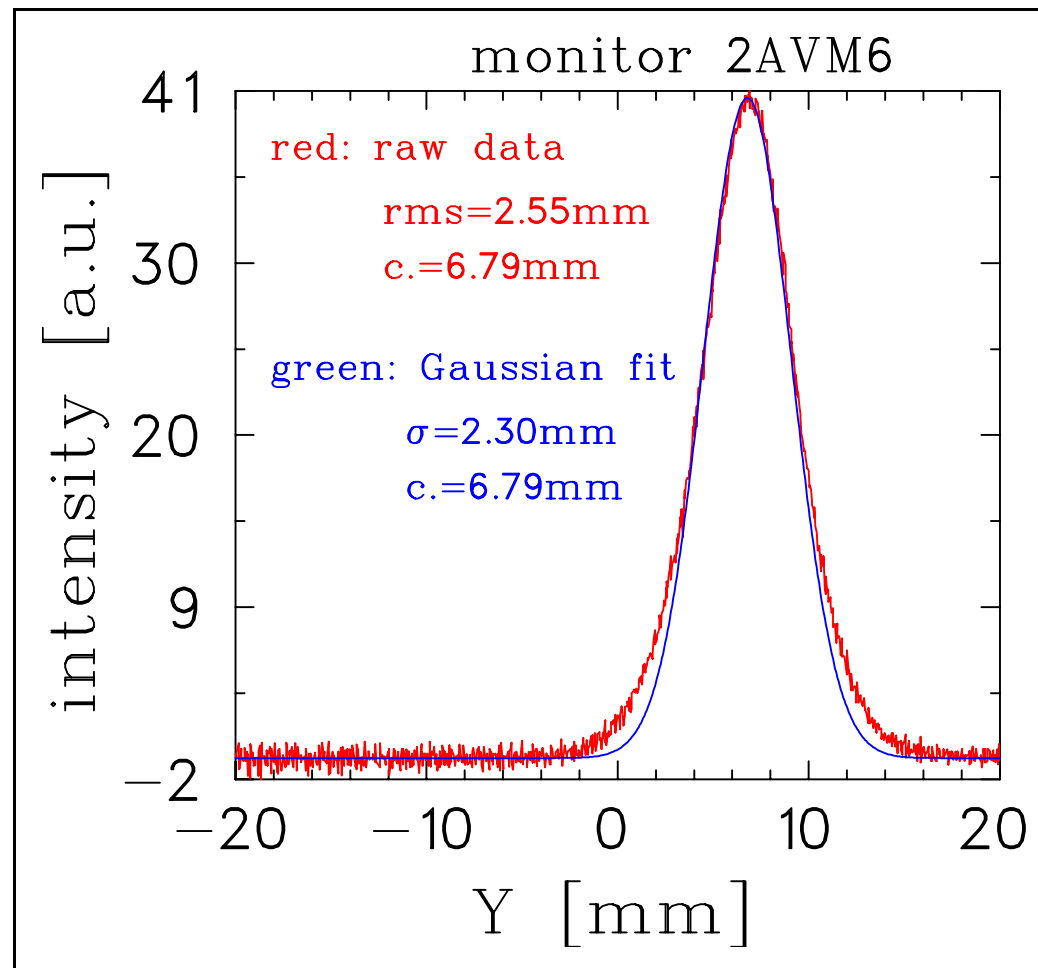
Old operational tune that was blasting holes in the targets:



New operational tune that was steadily running with current up to $70 \mu\text{A}$ on the West station:



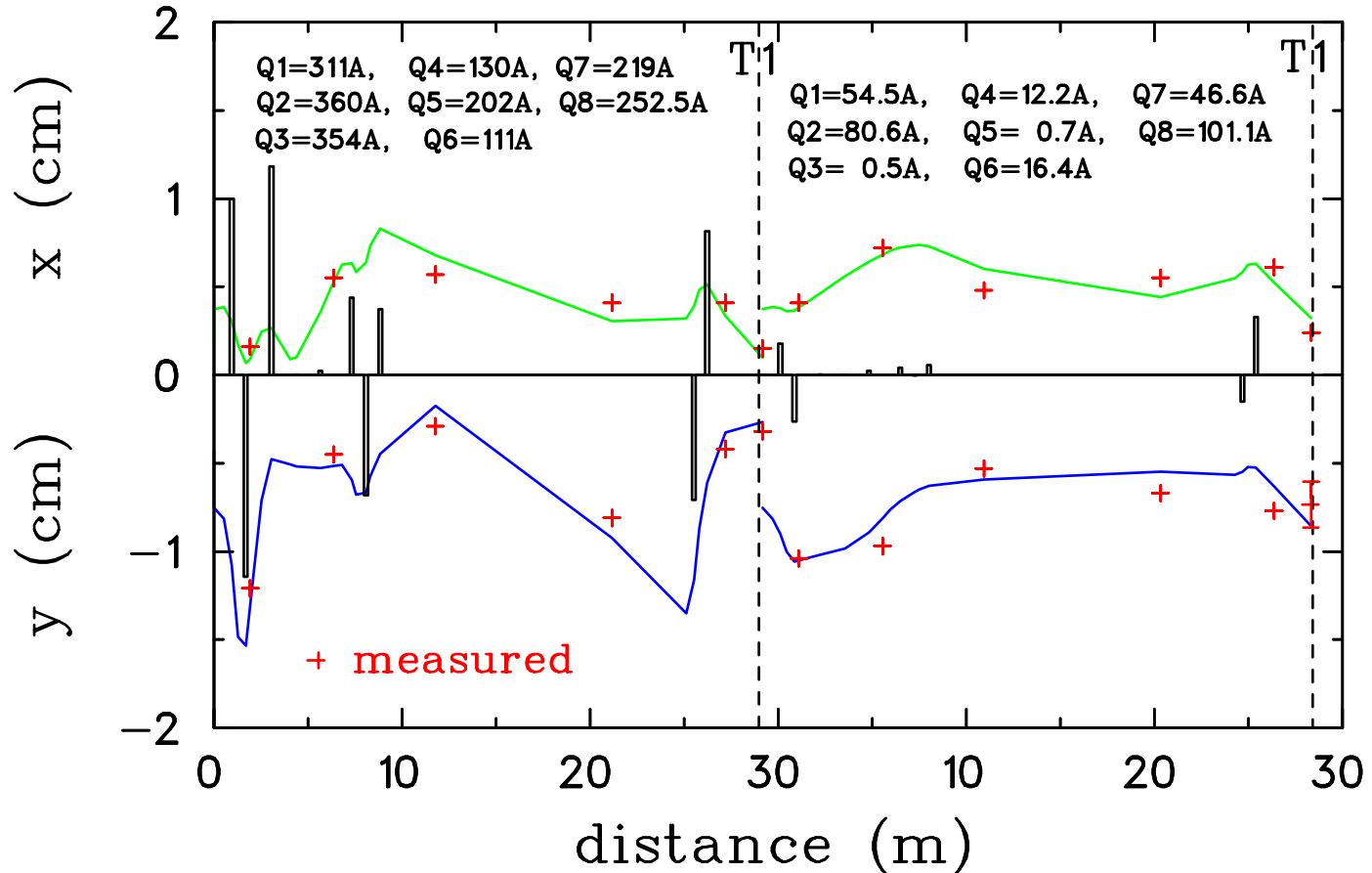
Investigating causes for beam trips



The broad non-Gaussian halo is likely coming from the large angle scattering in the stripping foil, causing beam trips in the beamline.

Work on BL1A

The test that we made for BL1A optics (up to T1) on Nov.15 was intended to check to see if we can gain more confidence about locations of the elements involved, by comparing the beam sizes measured and calculated.



Conclusion: We find pretty good agreement.

Work on Thales cyclotron

TRIUMF got well paid for the work that we did for the Thales PET cyclotron: investigated the B-field isochronism, modelled the central region 3-D electric field and simulated the orbits.

