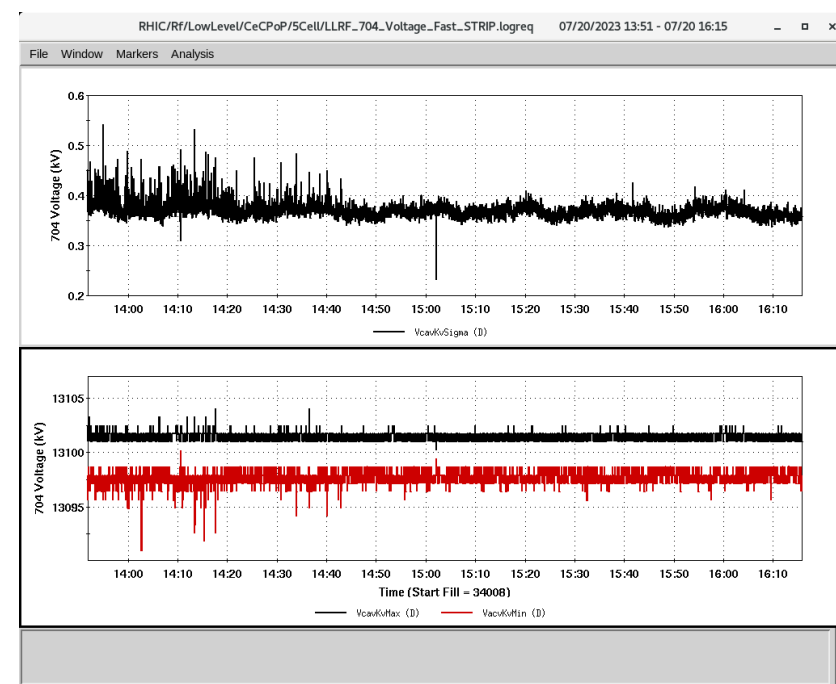


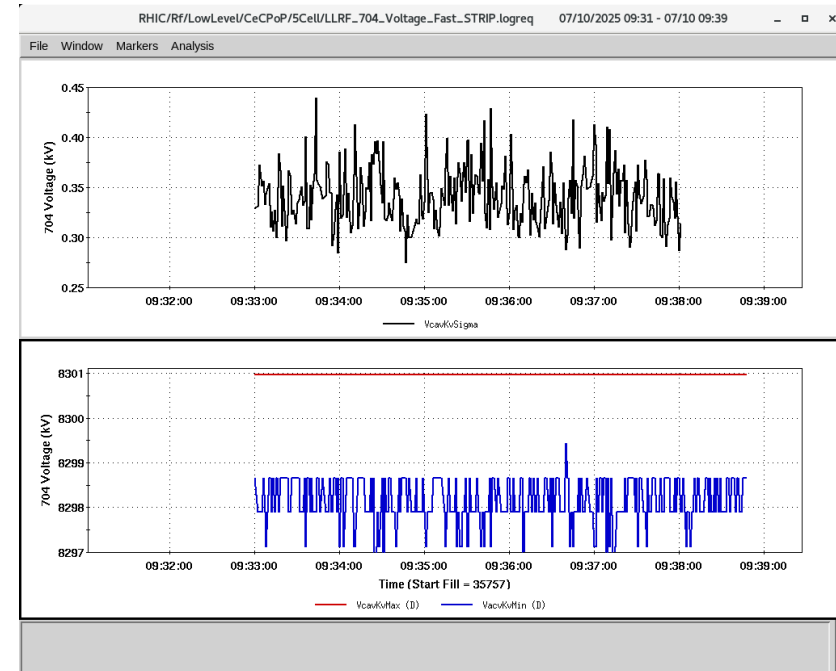
# CeC status – 7/15/25

## Cryo and RF group improved 704 MHz stability

- Voltage variation (sigma) is  $\sim 0.4$  kV/p2p 2 kV when operated at 8.3 MV (RMS  $5e-5$ /p2p  $2.5e-4$ ).
- Comparable with best performance (in abs. value) in 2023 when operated at 13.1 MV.
- 704 MHz has been monitored to see if further improvement can be achieved by cryo setup.



2023

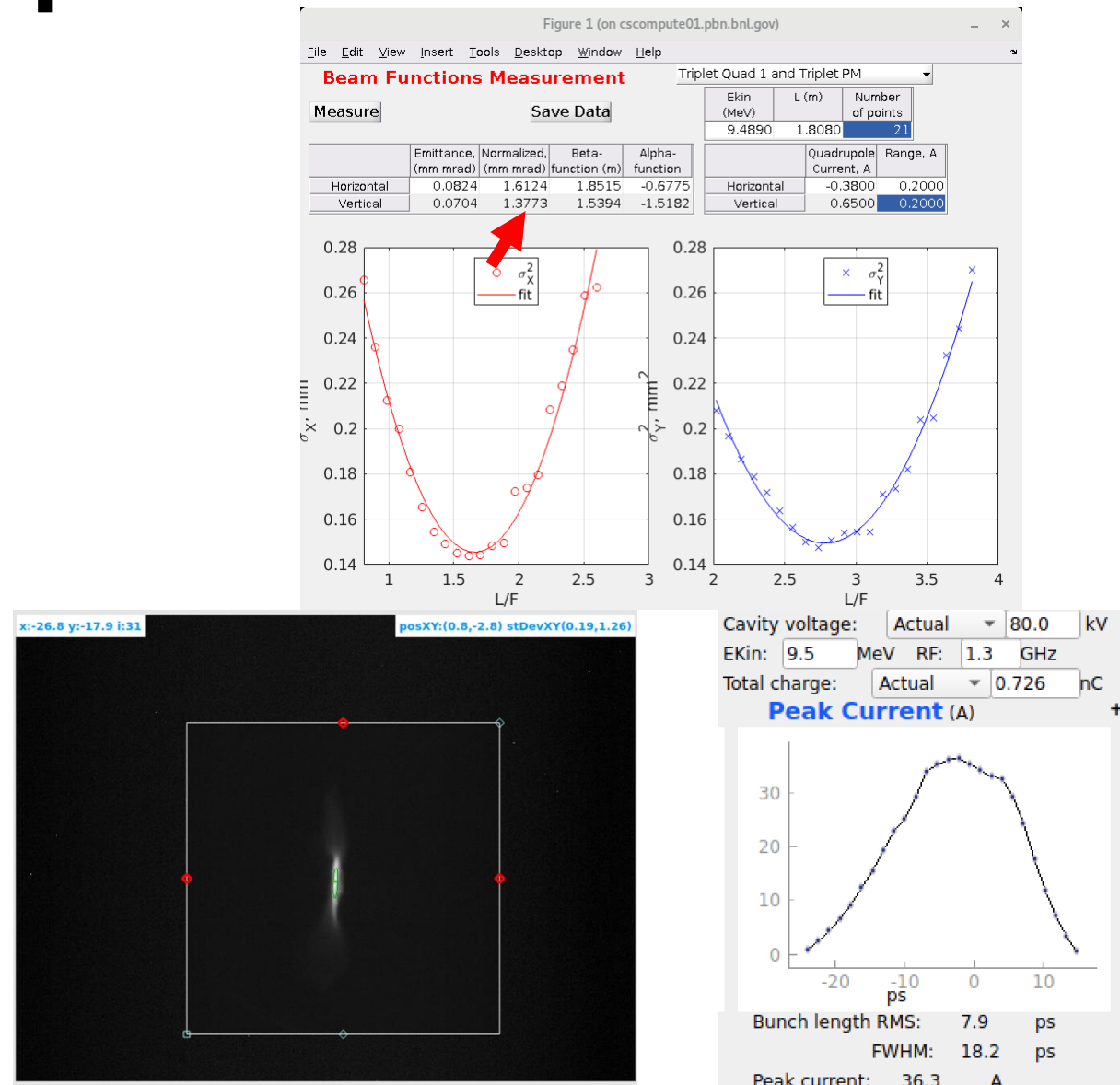


2025

# Preliminary beam parameters

Work in progress to achieve key performance parameters needed for cooling demonstration.

- Projected normalized emittance at full energy  $\sim 1.7 / 1.3 \text{ um}$  in x/y.
- Peak current 20 – 40 A with various RF setups.
- Bugs found in scripts (wrong magnet calibration) and fixes are going-on to measure slice emittance and slice energy spread correctly.



Beam when TCAV on