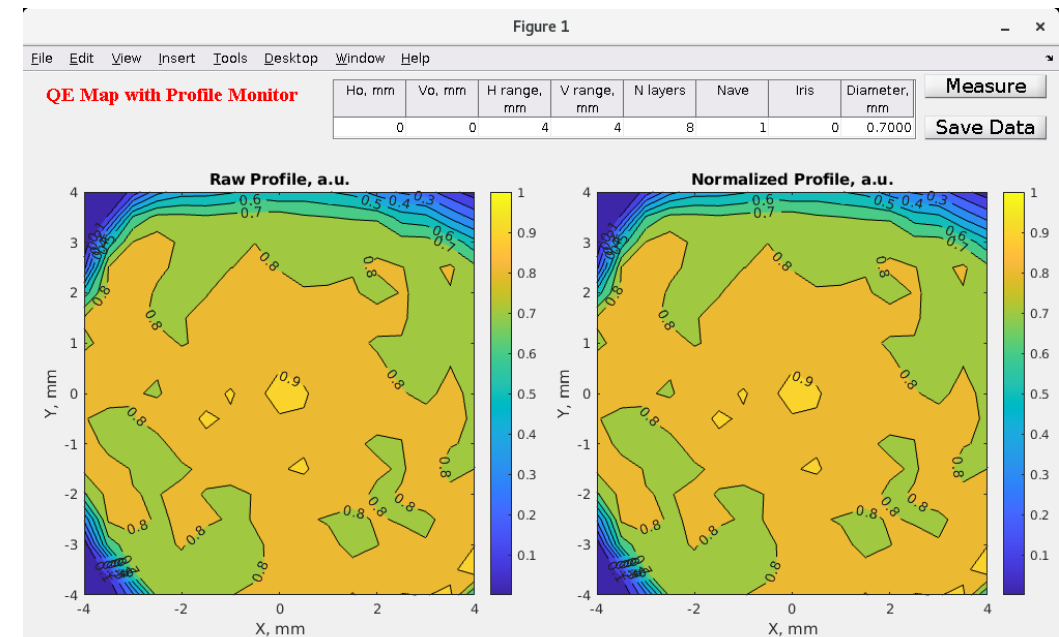
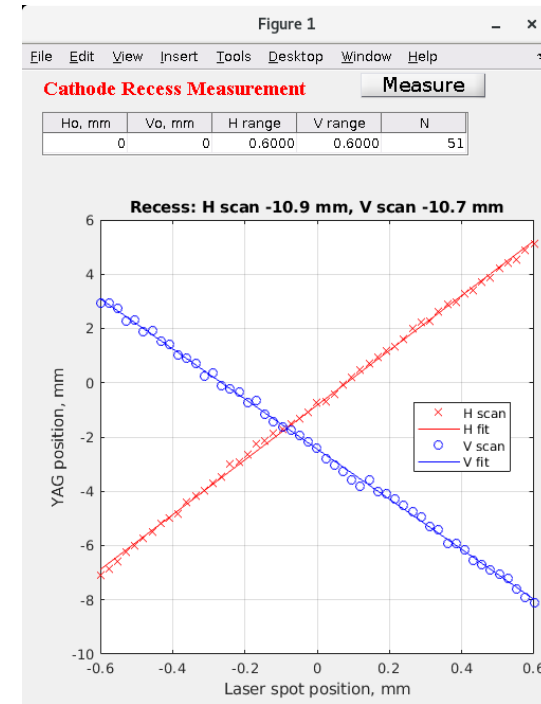


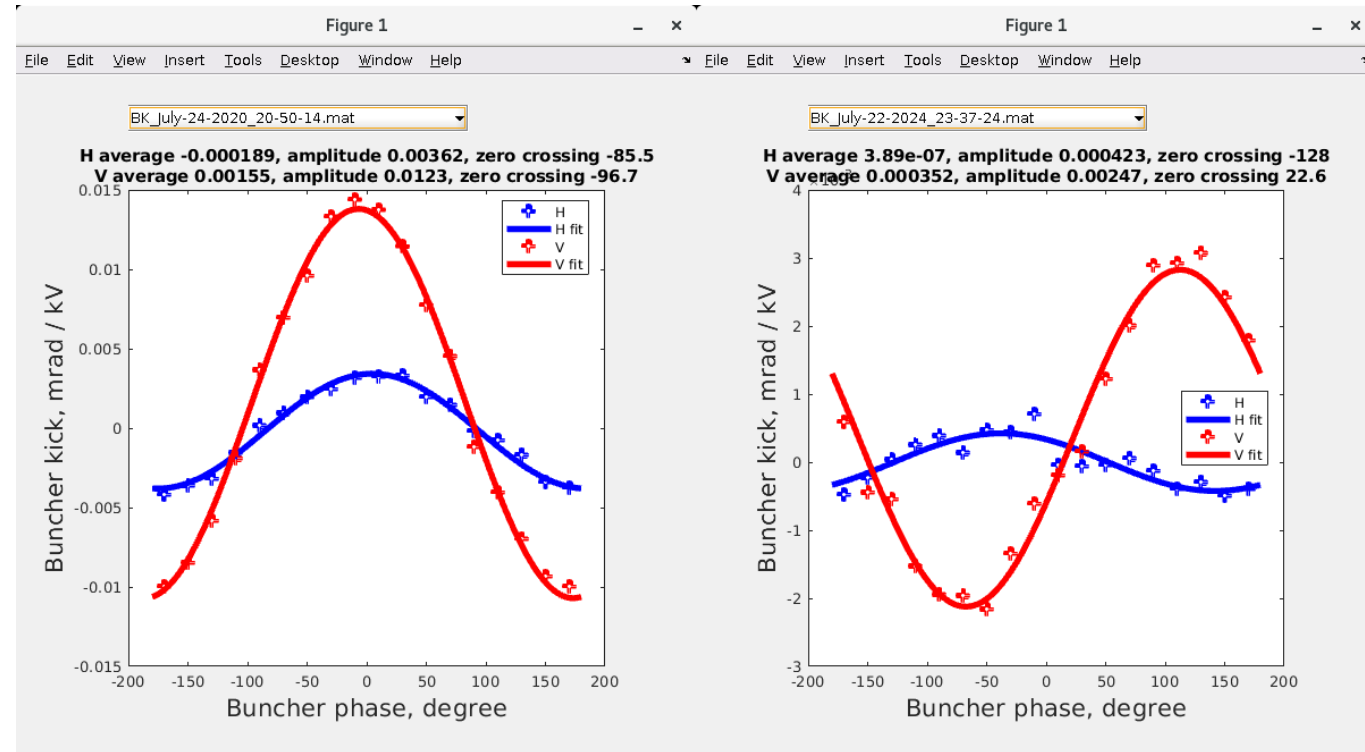
# CeC status – 7.23.24

- New cathode was installed during maintenance and position was adjusted to desirable location.
- Gun was up and operating normally at nominal voltage (1.25 MV).
- QE of the cathode experienced initial drop after insertion (0.19%  $\rightarrow$  0.1%) and became stable ever since then.



# New 500 MHz cavity is operational

- RTD issues on the 500 MHz cavity were resolved during last maintenance.
- RF group conditioned the cavity and it is now running at desirable voltage.
- Preliminary study shows the cavity still has non-negligible vertical kick to the beam albeit it is good improvement comparing to earlier bunching cavity.



Run 23

Run 24

X: kick amplitude from  $3.6e-3$   $\rightarrow$   $4.2e-4$   
Y: kick amplitude from  $1.2e-2$   $\rightarrow$   $2.5e-3$