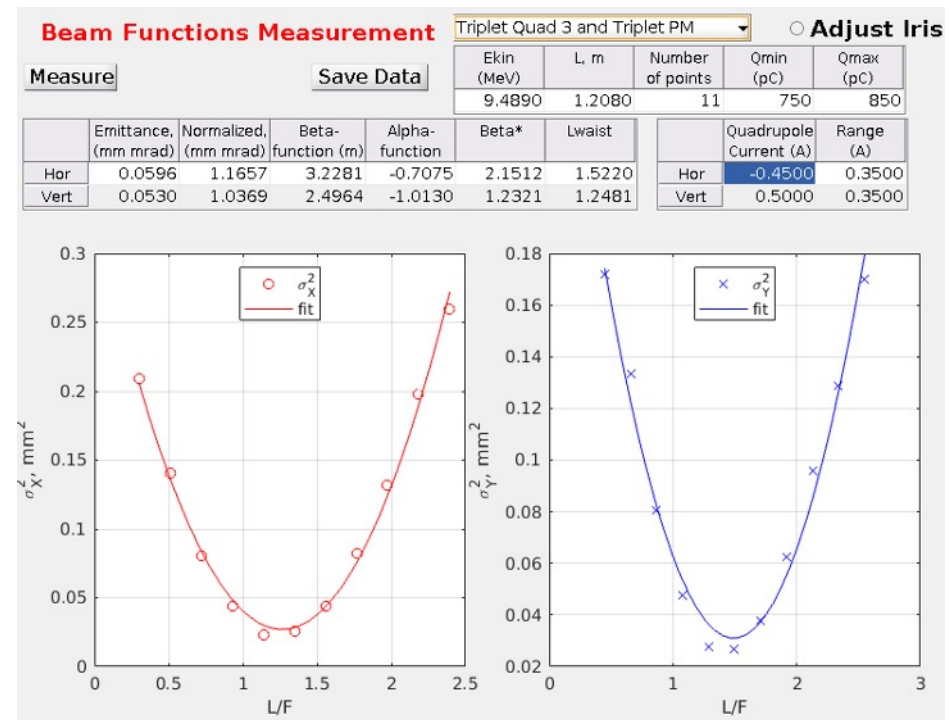
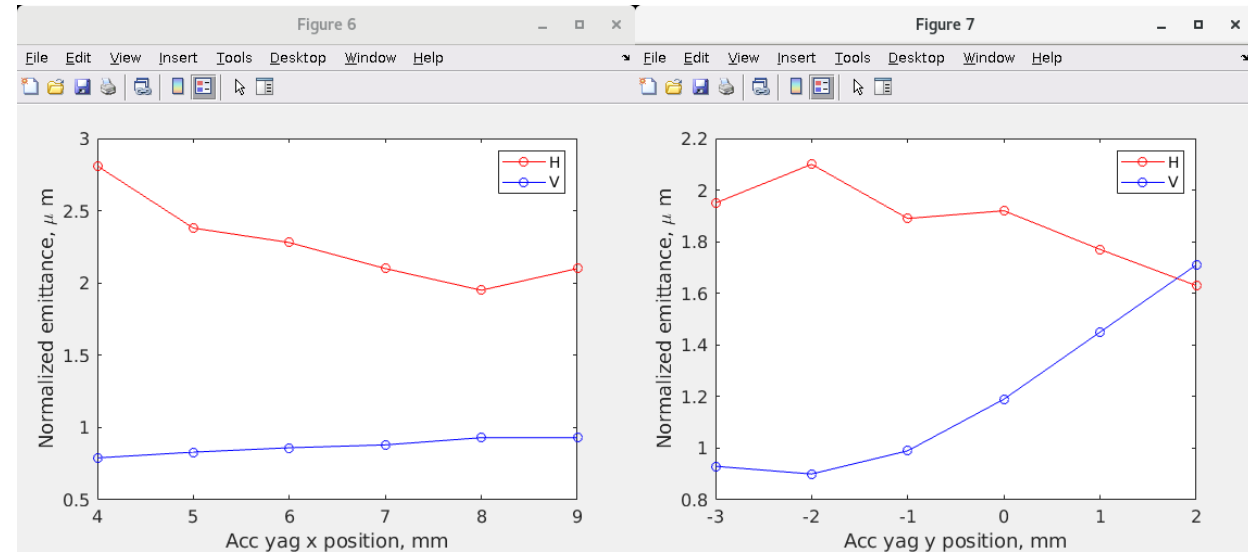


CeC status, 10/7/25

Beam development

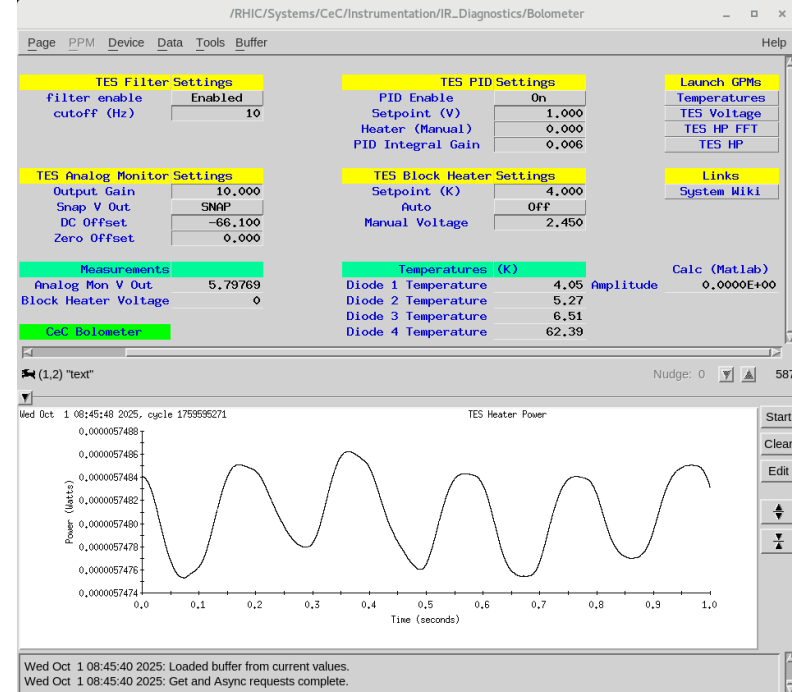
- Continue to work on finding optimal orbit through 704 MHz cavity in repeatable way (initial condition determined by yag and bpm positions).
- Projected norm. emittance < 1.8 μm with round beam setup.
- Optimal point proj. normalized emittance ~ 1 - 1.2 μm

Beam emittance (proj.) as function of yag position

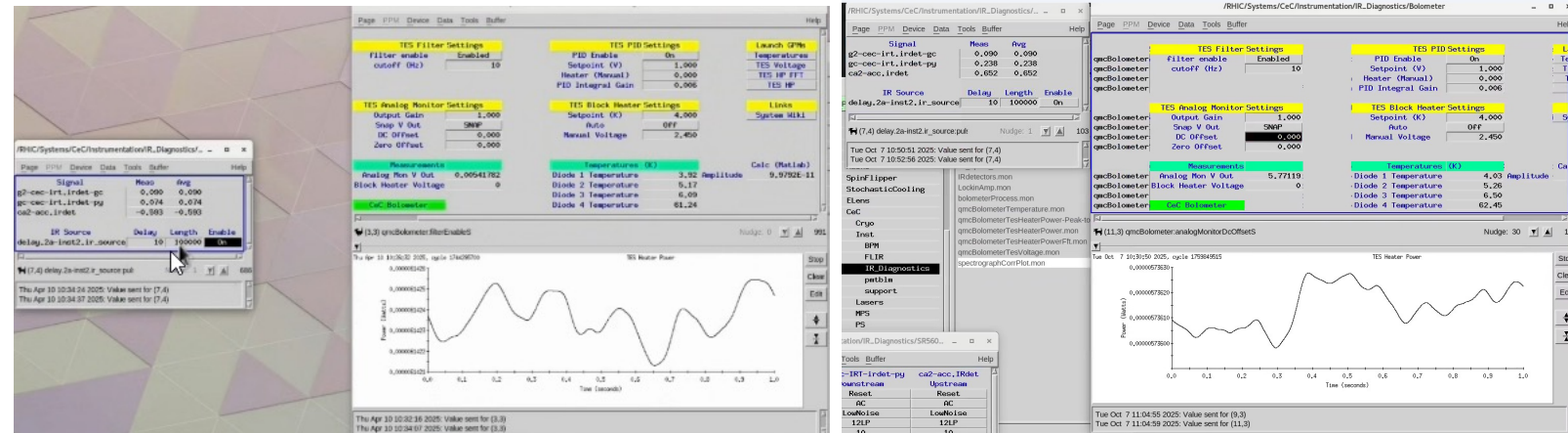


IR signal in common section (to see PCA)

- Bolometer is operational after maintenance fixes.
- Signal from bolometer is very weak.
- IR Signal is visible when e- beam is intentionally over compressed (elevated beam noise).
- Later confirmed by expert that with test lamp the signal is weaker than before.



Courtesy of S. Hafeez



April 2025, 5Hz test signal is visible

Now

- Need to improve alignment.