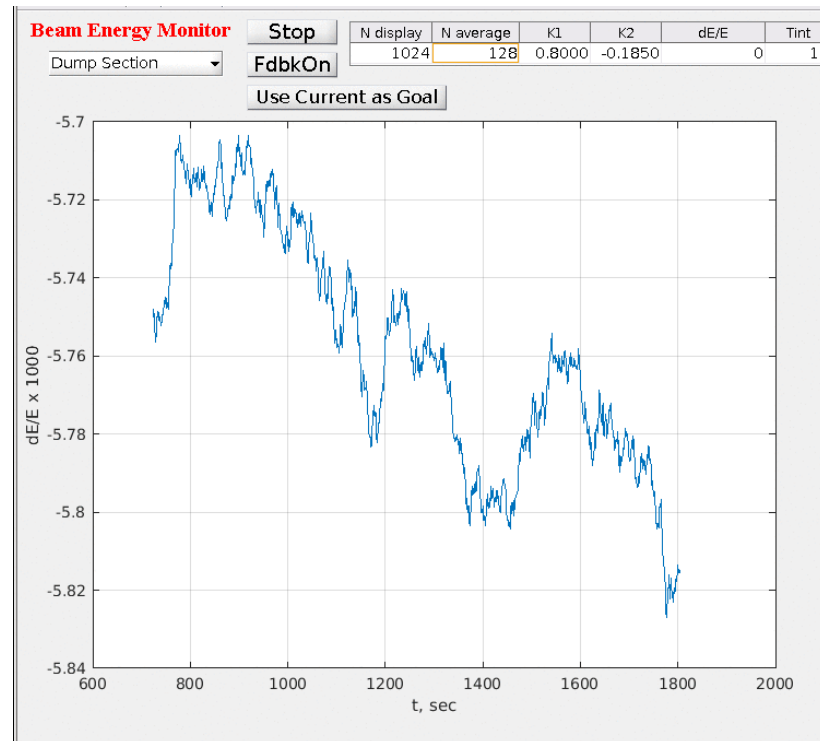


CeC PoP Experiment

March 22, 2022

CeC Operation

- QE is 0.8%
- We continue work on the beam quality
- Added energy monitoring with dump BPM. We can stabilize energy with $dE/E < 5 \times 10^{-5}$

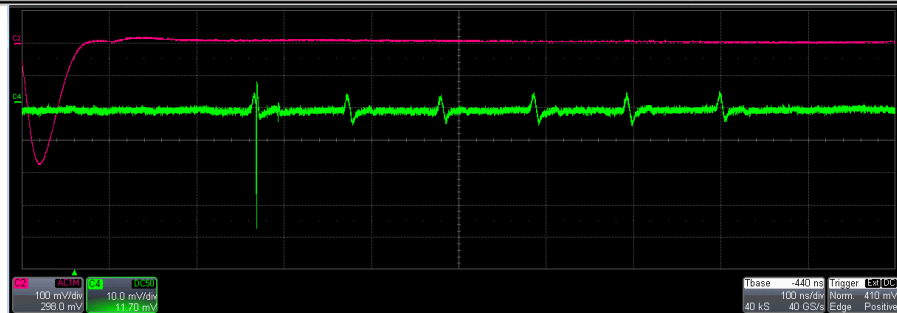
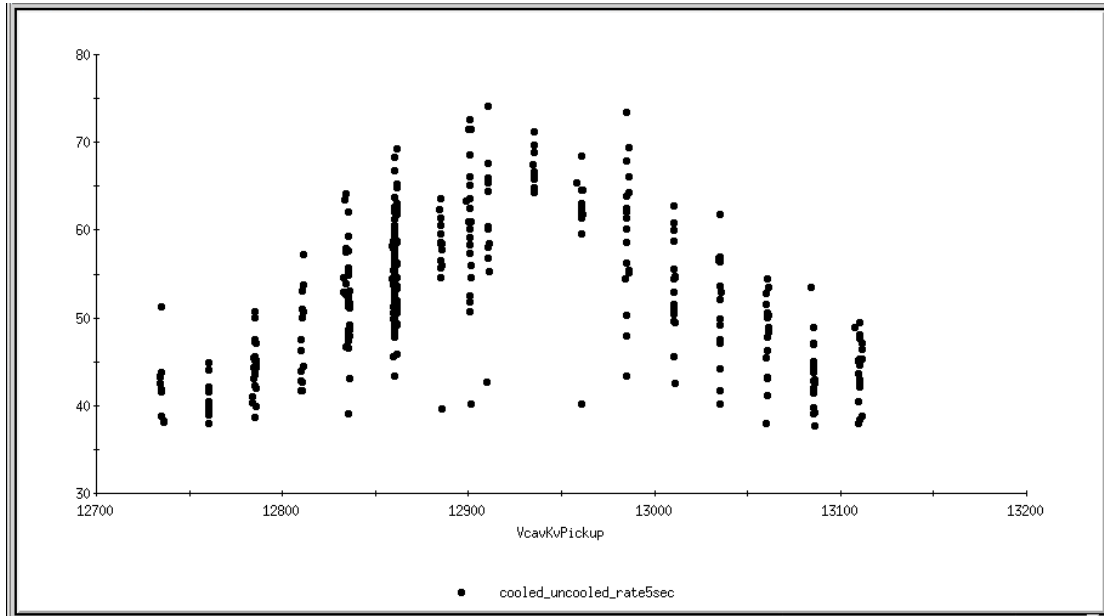


Dedicated Time Work

Matching of the relativistic factors of the electron and hadron beams

Measured matching of the beam into the PCA lattice

Adjusted BPM offsets



Energy Measurement

gamma
28.5000

Measure

| | Solenoid Current, A | Htrim Current, A | H trim range, A | Vtrim Current, A | V trim range, A | Points |
|------------|---------------------|------------------|-----------------|------------------|-----------------|--------|
| Solenoid 3 | 120 | 0.9700 | 3.9000 | -0.4900 | 3.9000 | 8 |
| Solenoid 2 | 61 | -0.9000 | 1.5000 | -0.5900 | 1.5000 | 8 |

| | Tilt Angle 1 | Tilt Angle 2 | Ekin, MeV | Efull, MeV | Error, kV |
|-----------------|--------------|--------------|-----------|------------|-----------|
| Horizontal scan | -54.0700 | 3.4800 | 14.0920 | 14.6030 | 9.6000 |
| Vertical scan | 36.2300 | 94.0900 | 14.0130 | 14.5240 | 1 |

