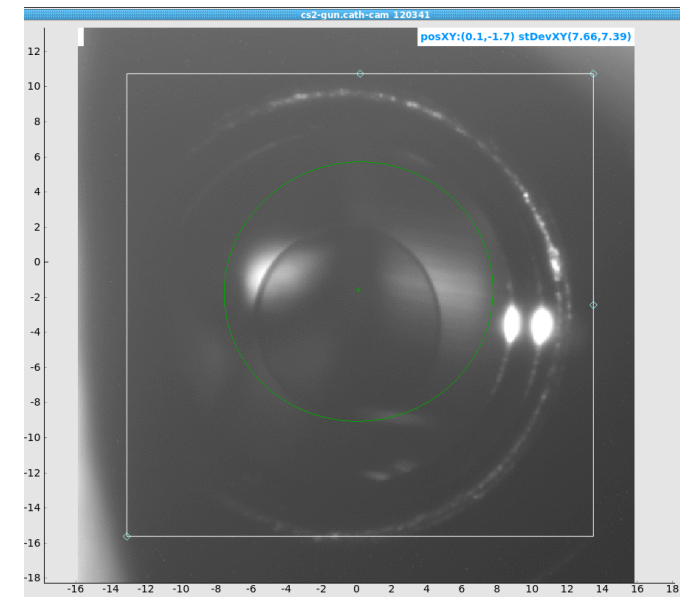
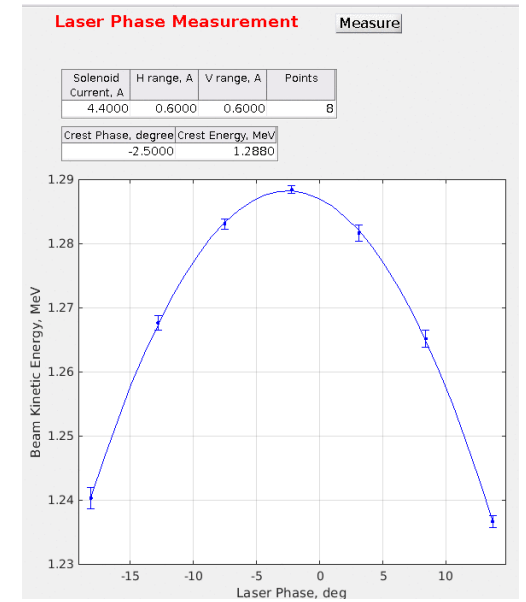


# CeC PoP Experiment

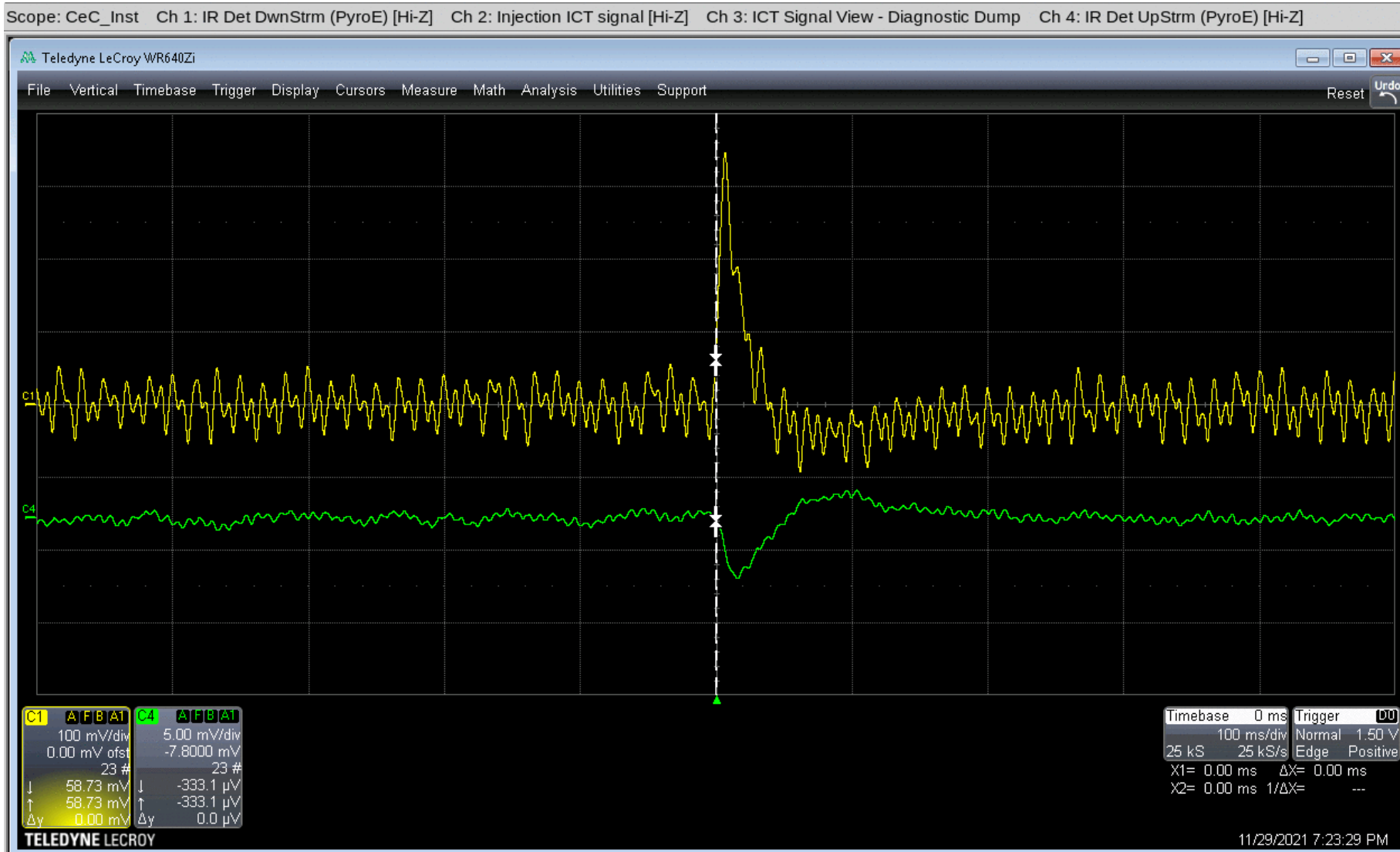
November 30, 2021

# Start of the Electron Beam Operation

- Cathode was inserted on November 24 and operation with electron beam will started. Gun reached full voltage from the first attempt.
- We have propagated beam to all three dumps without problems
- All IR detectors are alive and see signal from the test source.
- With feedback on, the average energy drift is within  $10^{-4}$
- We still have energy jumps from bunch to bunch on the order of  $10^{-3}$ , we also see 20% modulation of the beam charge



# IR Detector Signal from the Beam



Yellow trace is from downstream pyroelectric detector, green is from upstream pyro.

We have not observed signal from Golay cell and bolometer – possible alignment issue to be investigated.