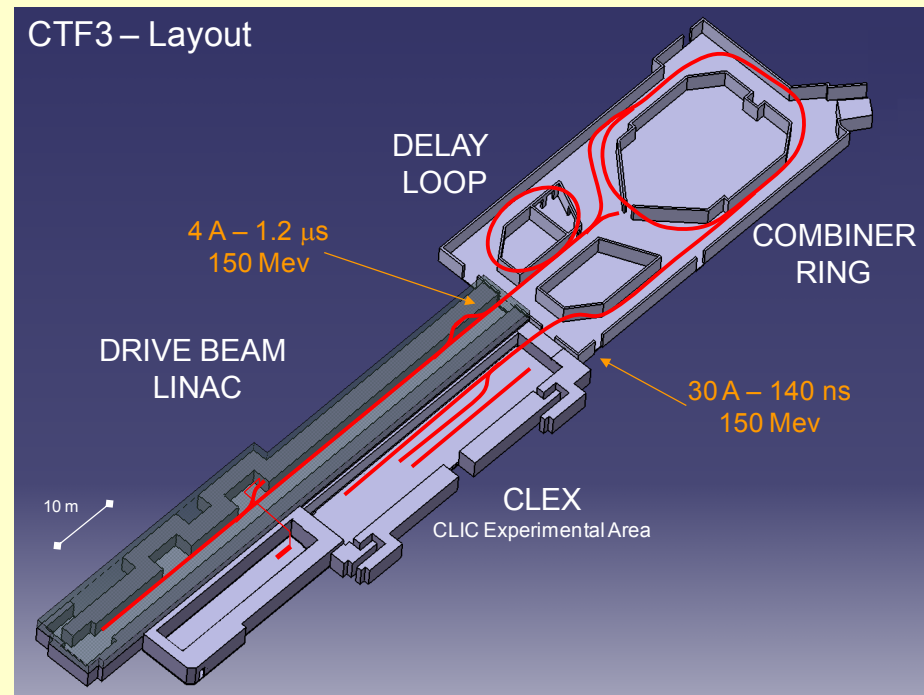




CTF3 - Status latest results



- Drive Beam status
- TBTS results
- TBL results
- Outlook

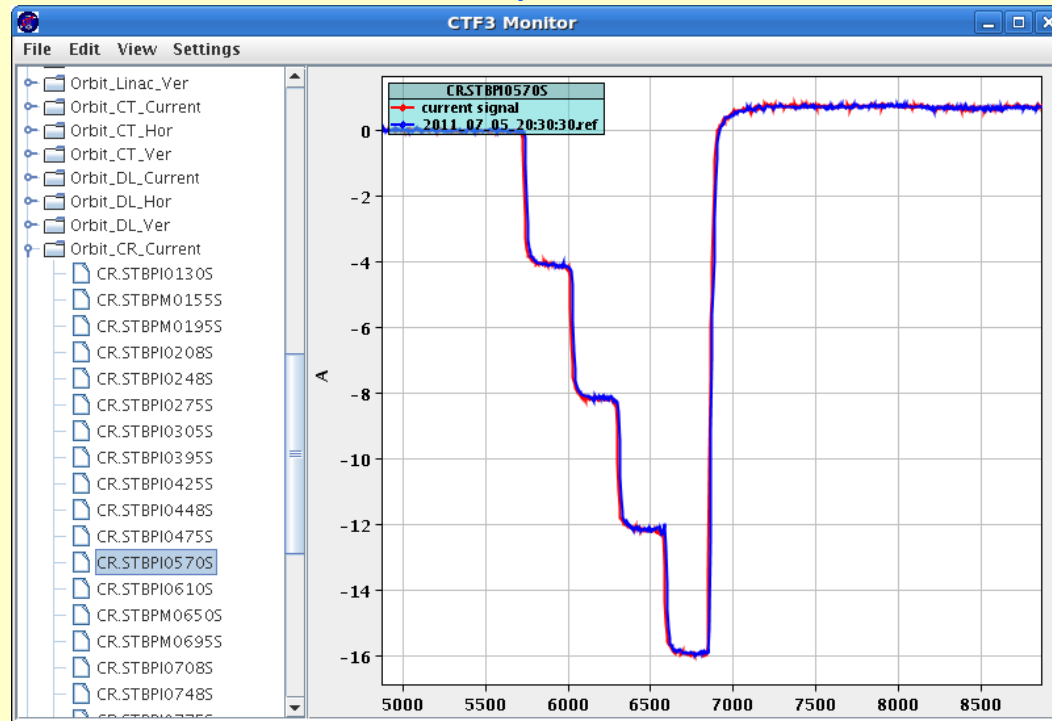




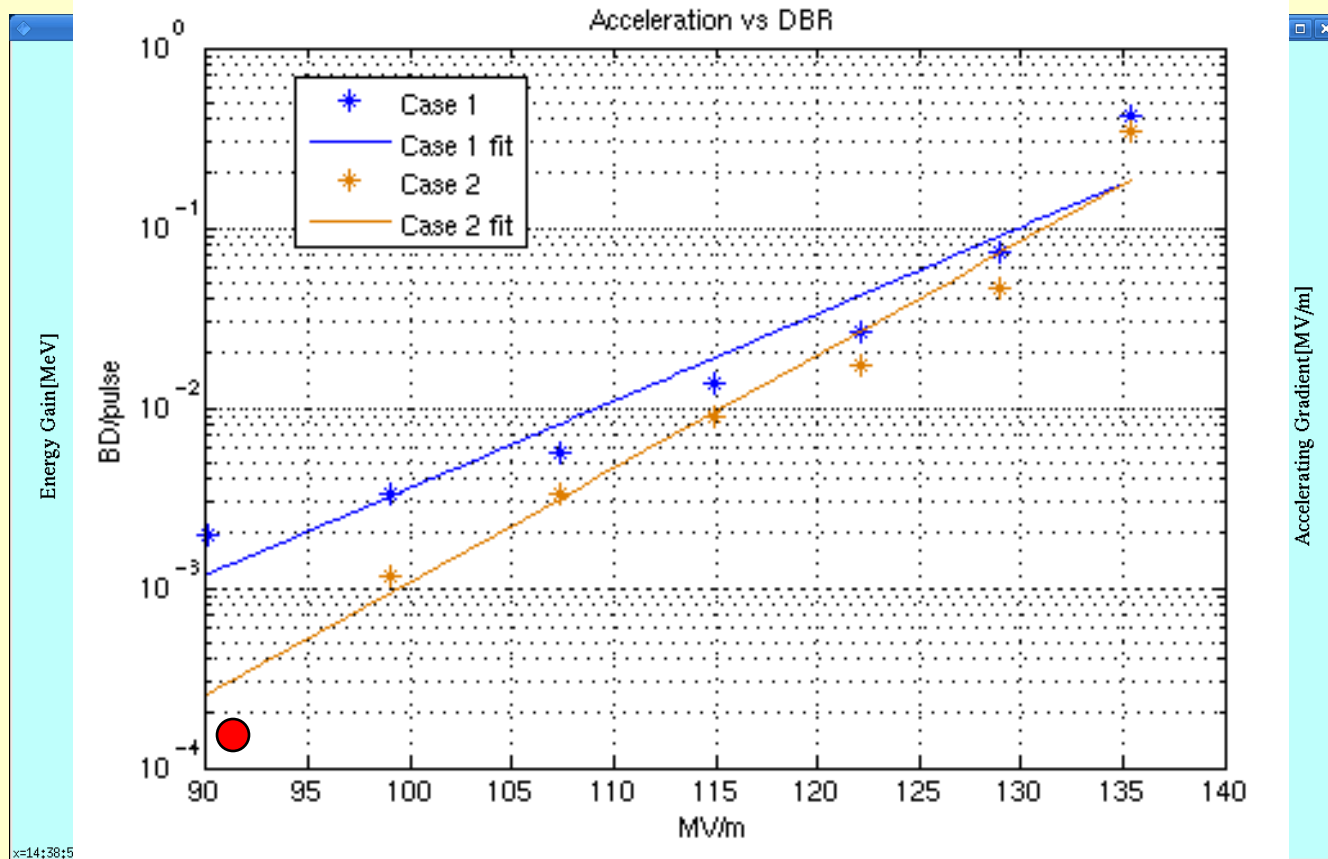
Drive beam status



- Excellent factor 4 beam, 16 A small losses, 14 A useable in CLEX with good form factor ($f=0.85$)
- Quite stable machine
- Bunch length measured 16-20 ps FWHM
- Emittance: $\sim 150x/250y$ mmmrad in CLEX



- Well established two beam acceleration experiments
- Calibration converging, structure correctly tuned
- Interesting breakdown studies started

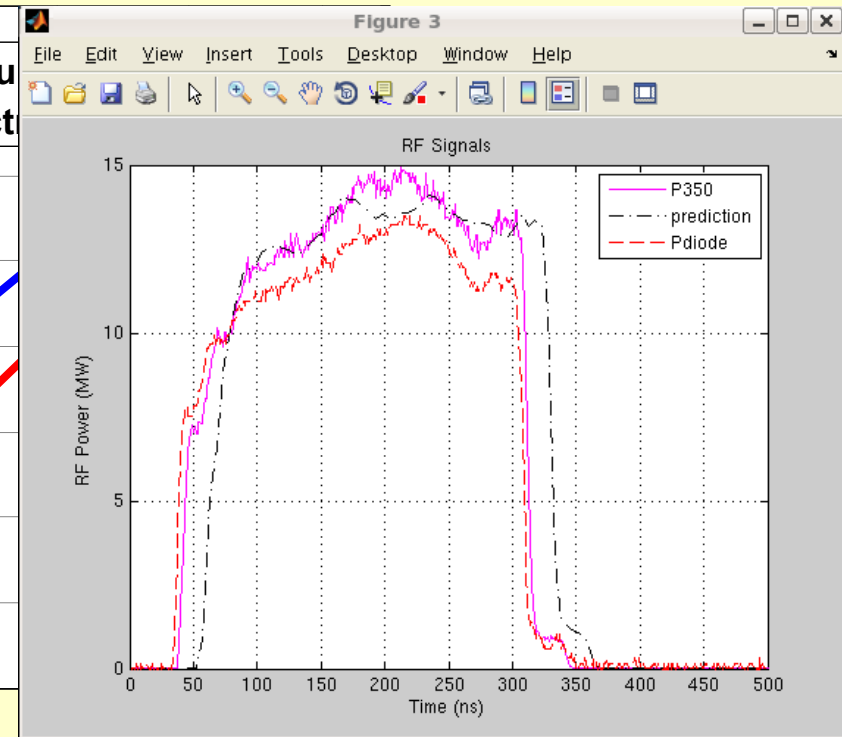
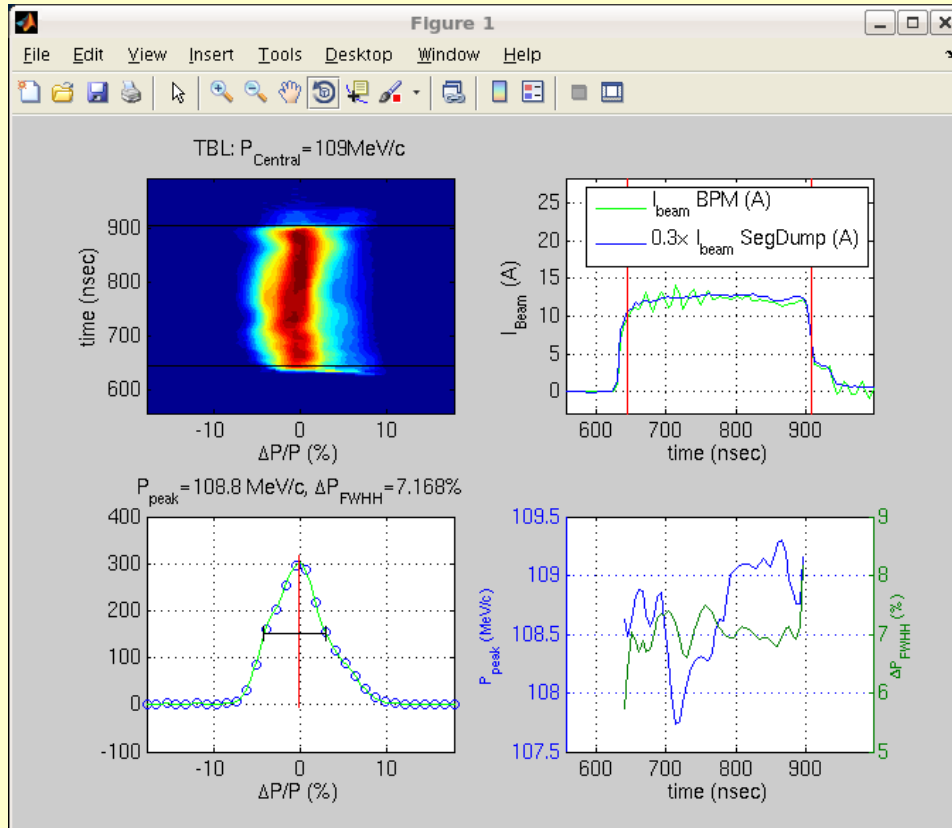




TBL results



- 14 A beam current, 280 ns pulse length, 4 PETS, ~ 9 MeV deceleration, 120 MW total power



Drive beam current (A)



Outlook



- Prepare combination factor 8, sub harmonic bunching, delay loop
Goal: 28 A out of the combiner ring, 26 usable in CLEX
Study stability of that beam
Unfortunately repaired 1.5 GHz TWT broke during reception test again !?
- Continue TD24 conditioning and breakdown rate measurements
Study if breakdown kick measurements are possible
- Characterize fully 3 GHz beam, stability and emittance growth
- TBL with > 20 A of beam