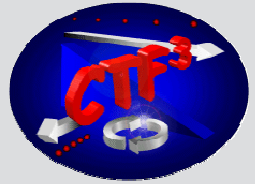


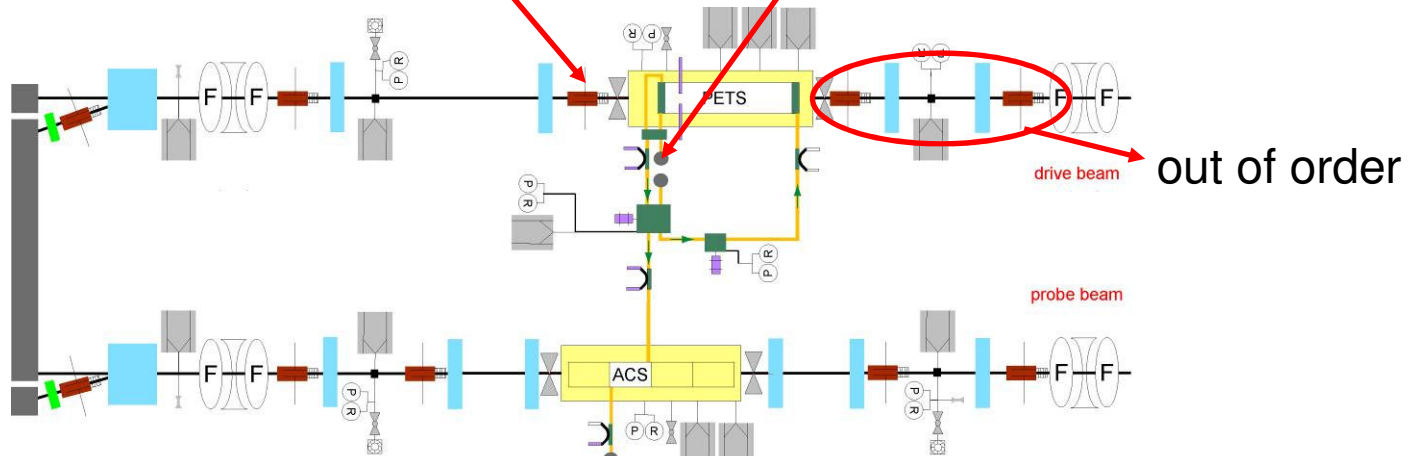
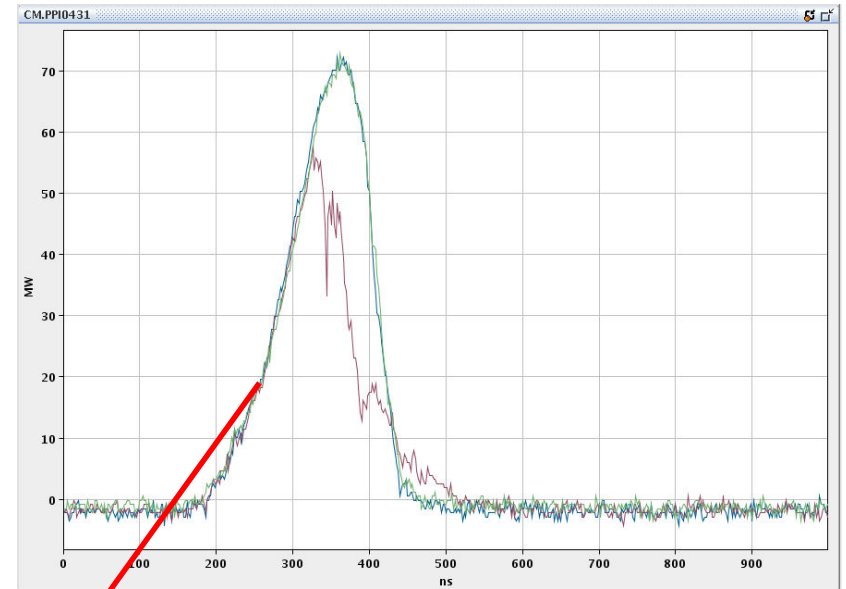
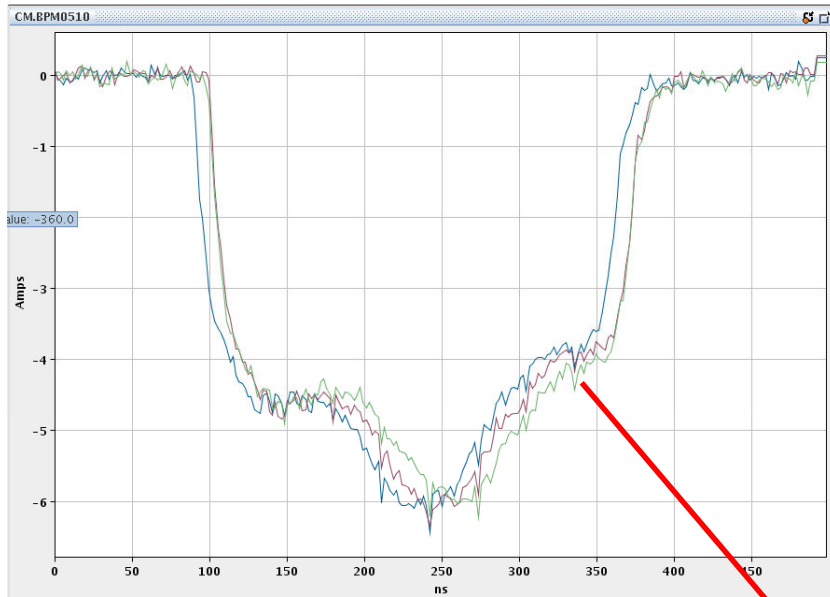
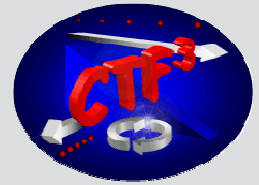


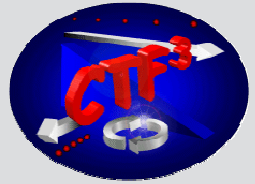
UPPSALA
UNIVERSITET



Two-beam Test Stand Status Report
CTF3 Committee Meeting
20 August 2009

Roger Ruber for the TBTS Team

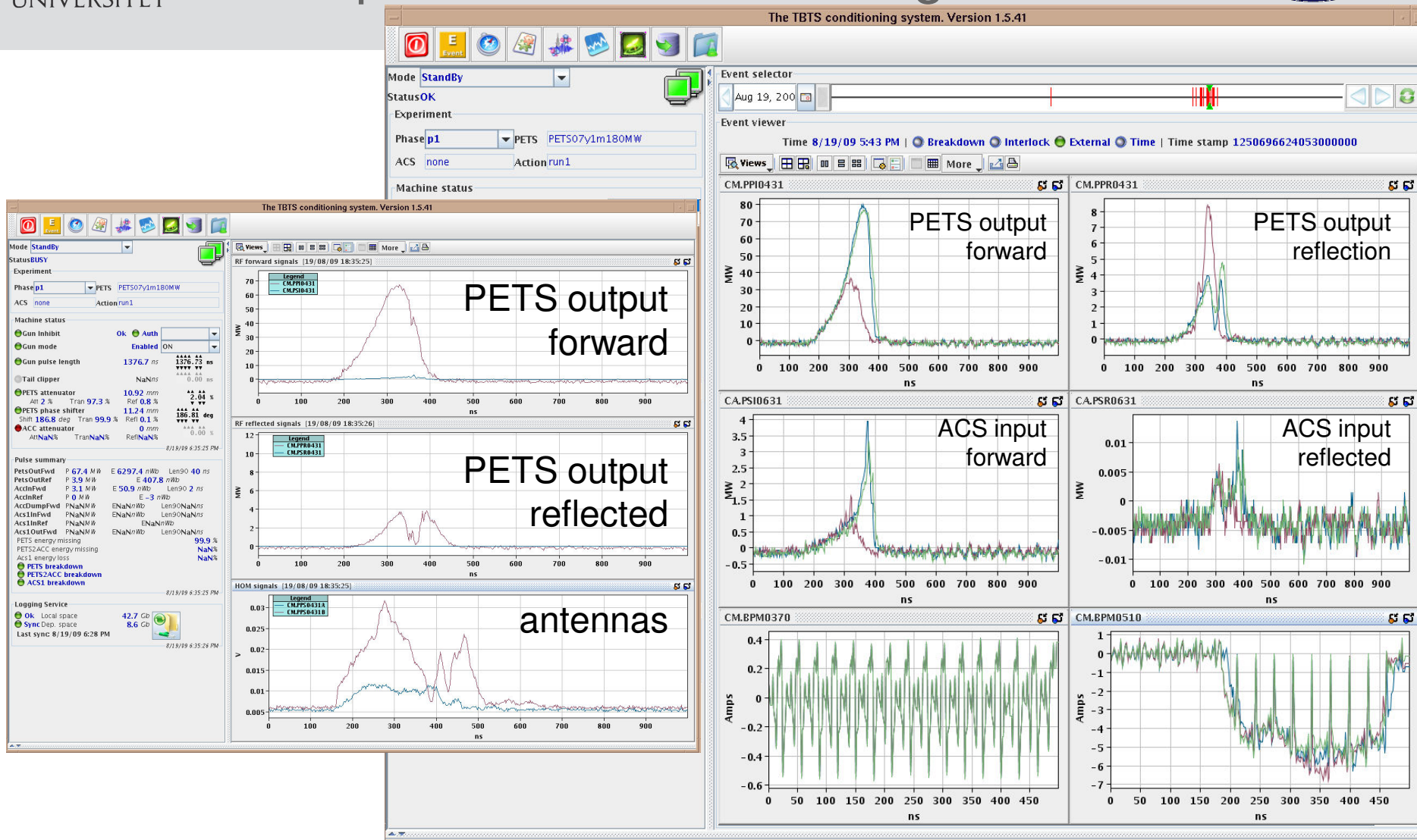
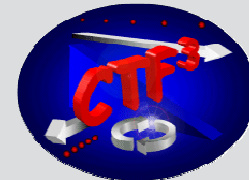


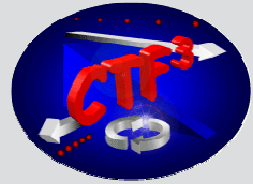


- Several days of drive-beam time to PETS
PETS output power >80 MW recorded @ 5A
- PETS RF power recirculation regulation works
some minor problems, see later
- Data logging and display upgraded
 - All RF diode and I&Q signals calibrated
 - Fast vacuum logging PETS enabled
 - Included online RF recirculation model
 - new ADC trigger (TBTSD || TBTSP)
- Beam position display (Ubi) in control room

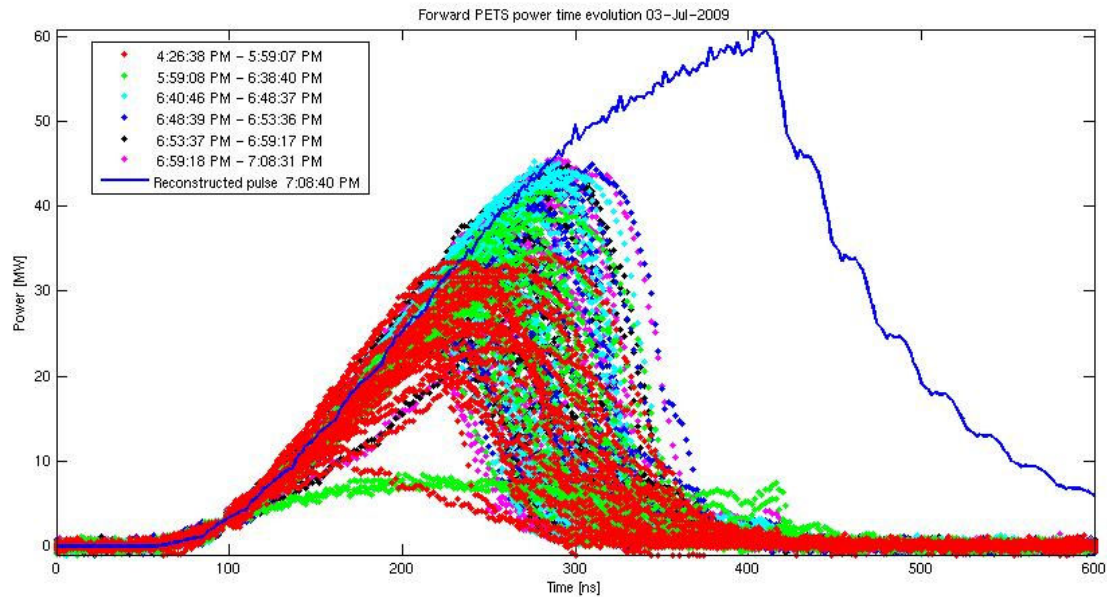
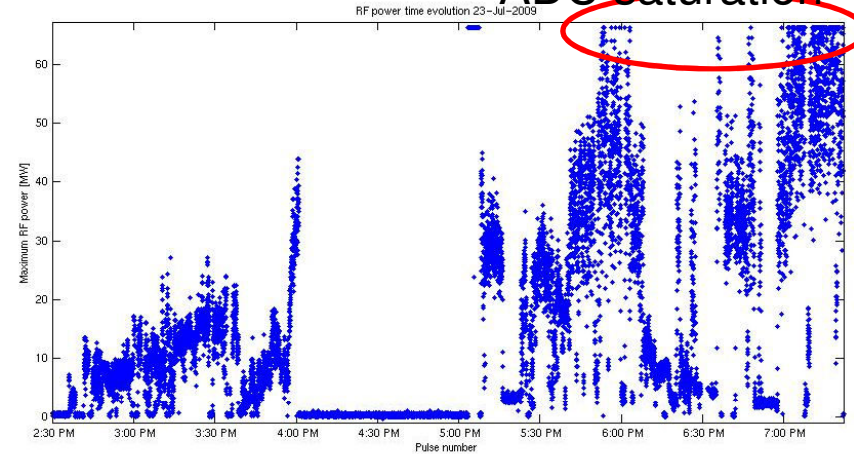
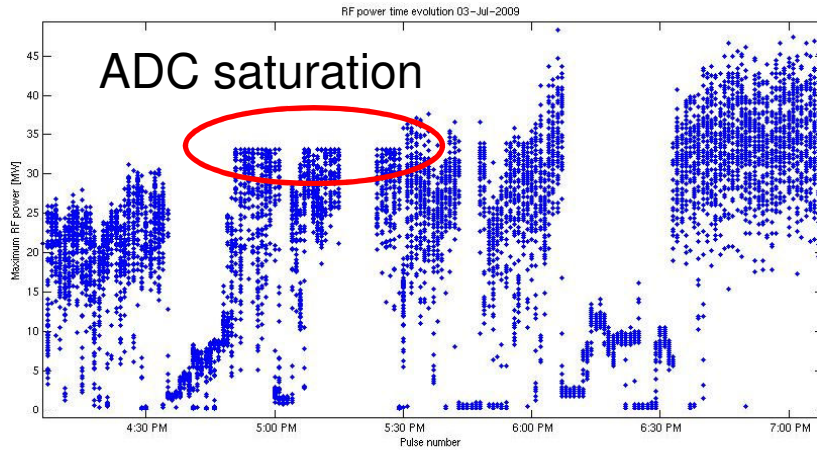


Example Pulses from 19-Aug-2009



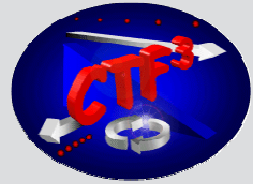


ADC saturation





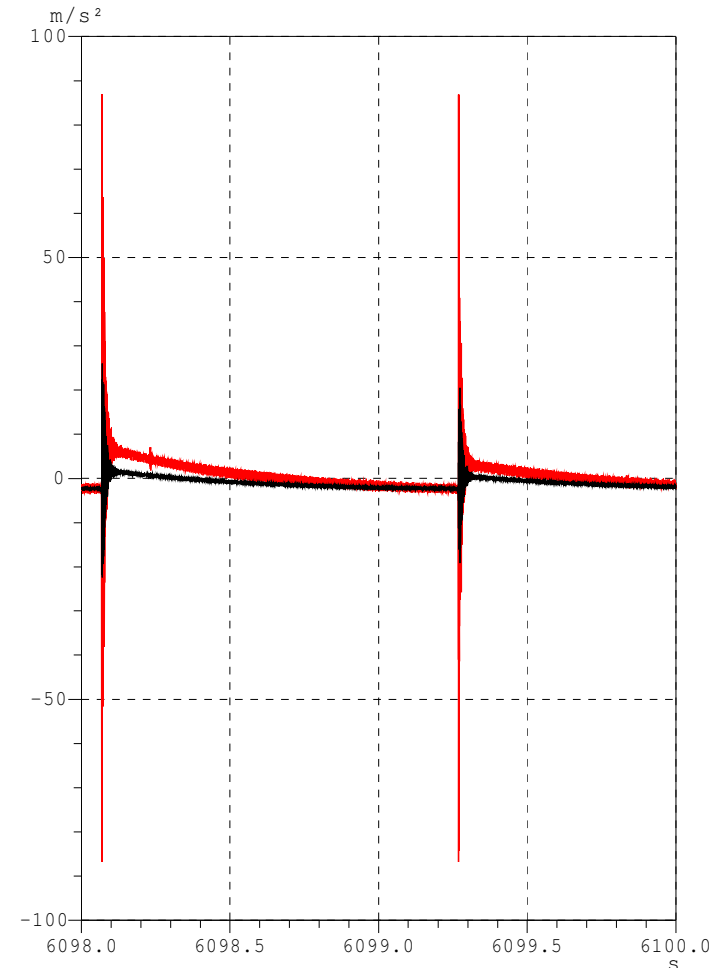
Vibration Measurements Piezo on Attenuator and Phase Shifter

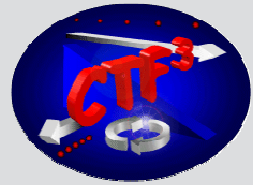


Work in progress.

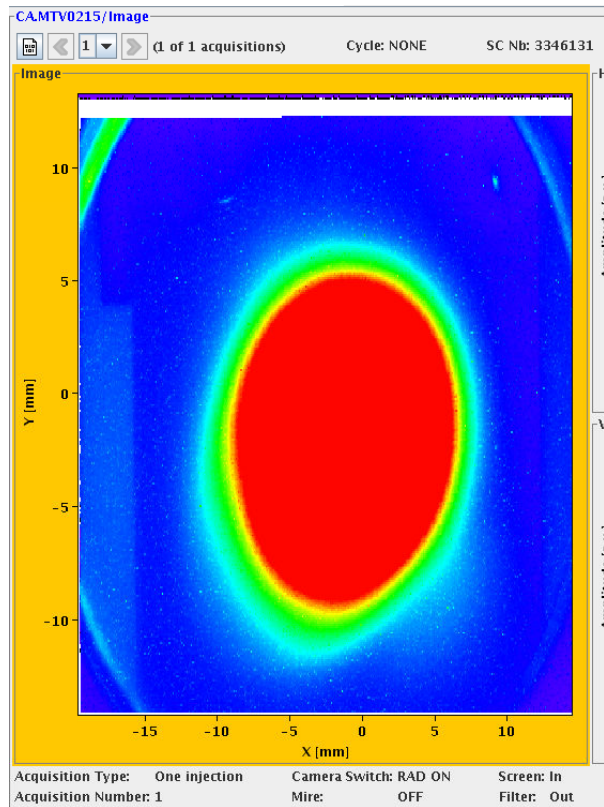
Data to be verified,
need correlation to beam

- black = attenuator
- red = phase shifter



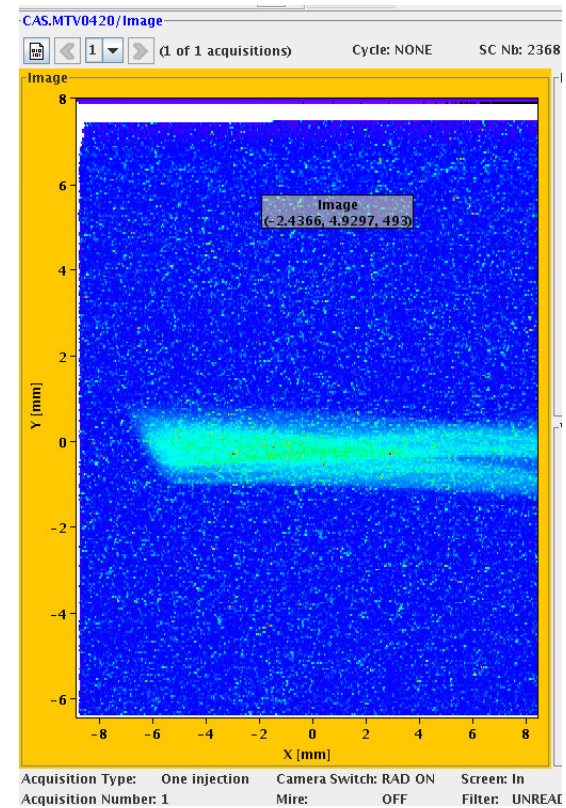


Beam from gun



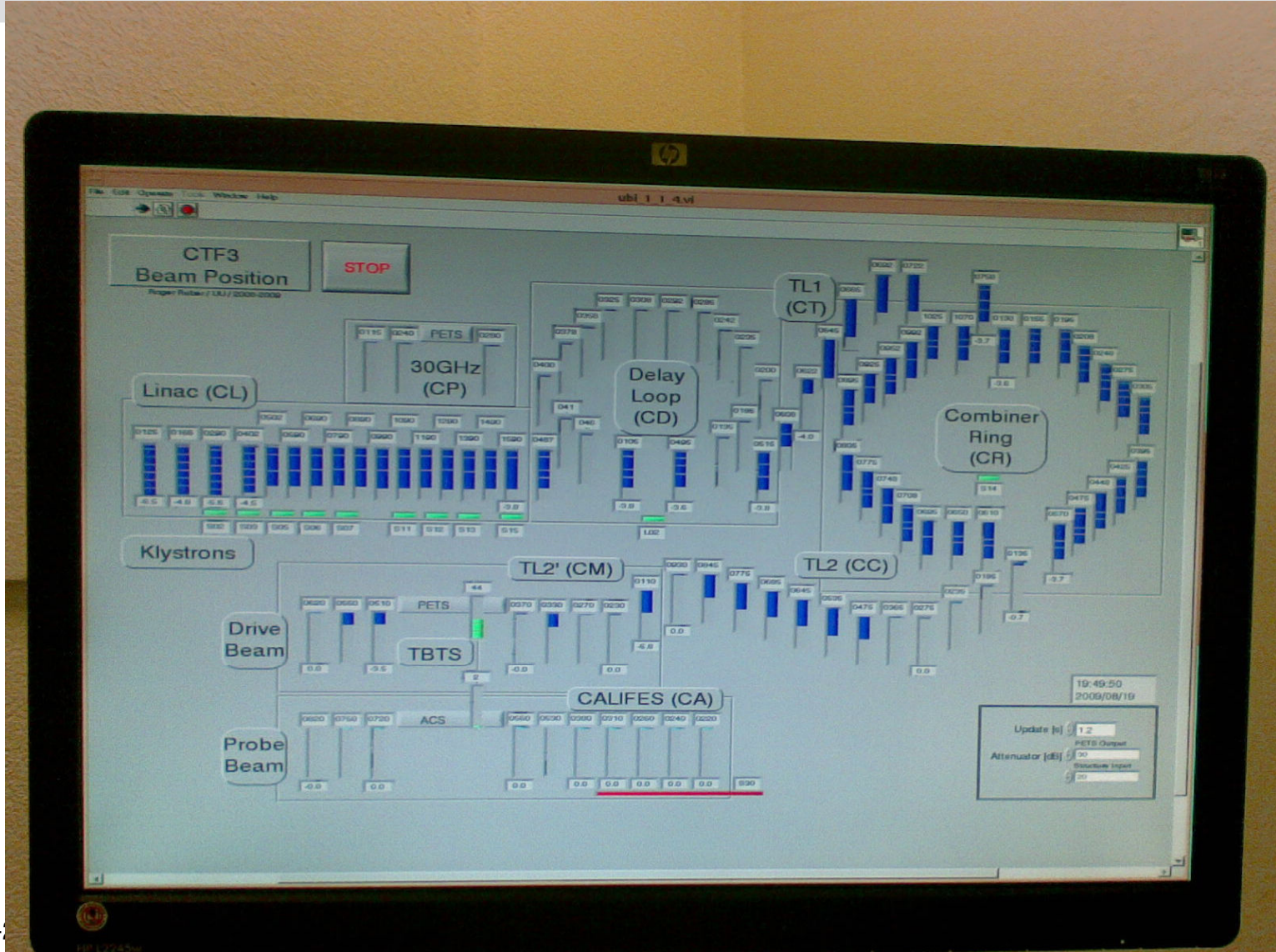
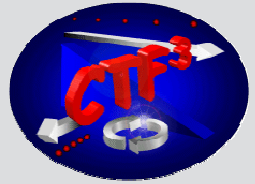
Beam on dump

BHB0400=11.5A (~45 MeV)



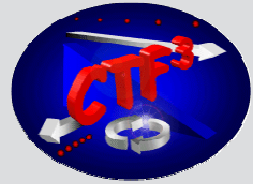


Ubi Display





Next Steps



- Continue commissioning probe beam line
 - improve beam transport quality and steering
 - synchronize drive and probe beam
- Continue commissioning drive beam line
 - beam steering in PETS, study correlation antenna signals
 - possibility beam during the night ???
- Data acquisition
 - remote controllable RF signal attenuator
 - conditioning software accelerator structure
- Data analysis
 - breakdown and beam kick reports in preparation
- Next maintenance period
 - verify PETS attenuator and phase shifter
 - installation accelerator structure