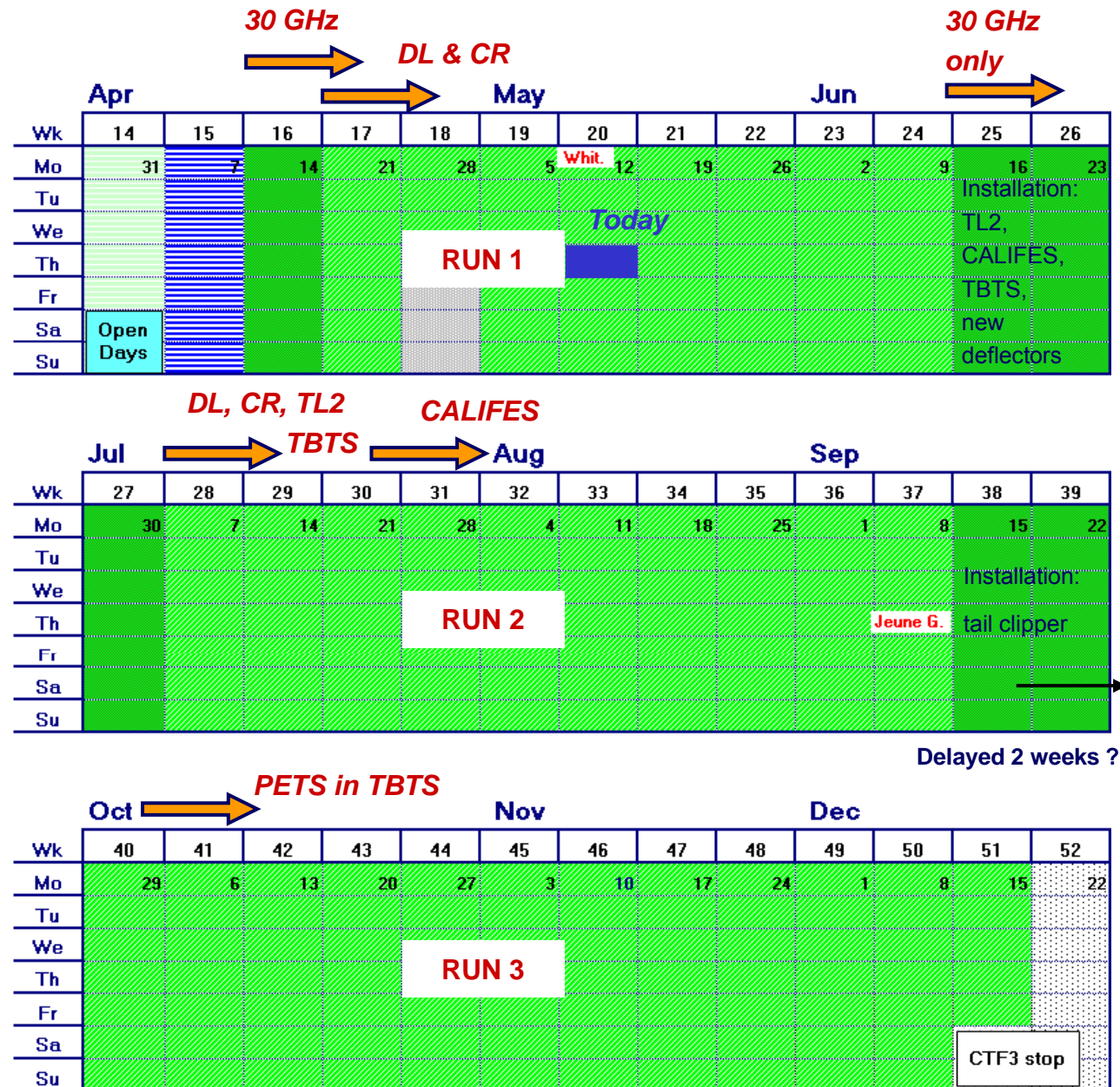


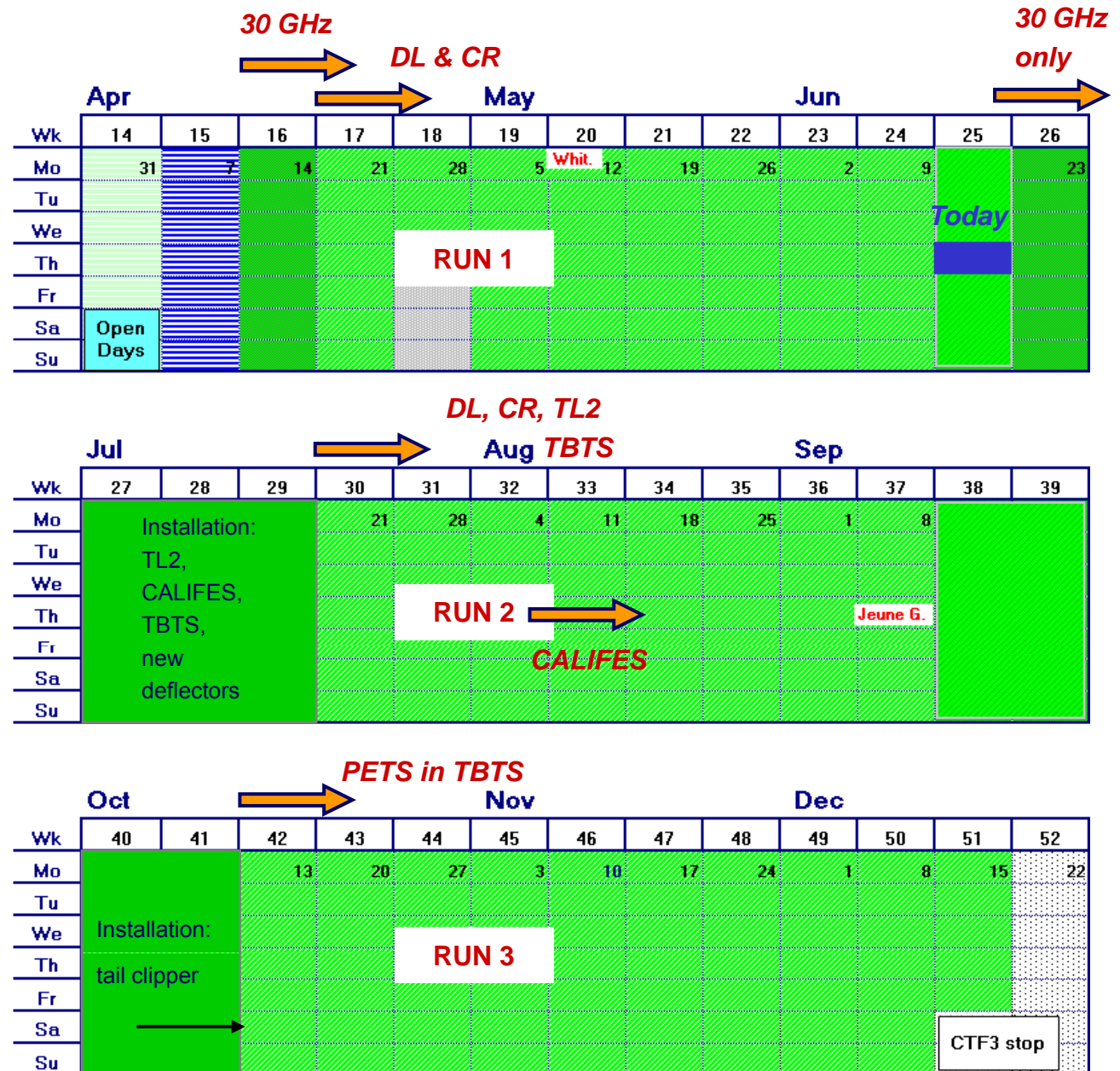


Schedule





Schedule

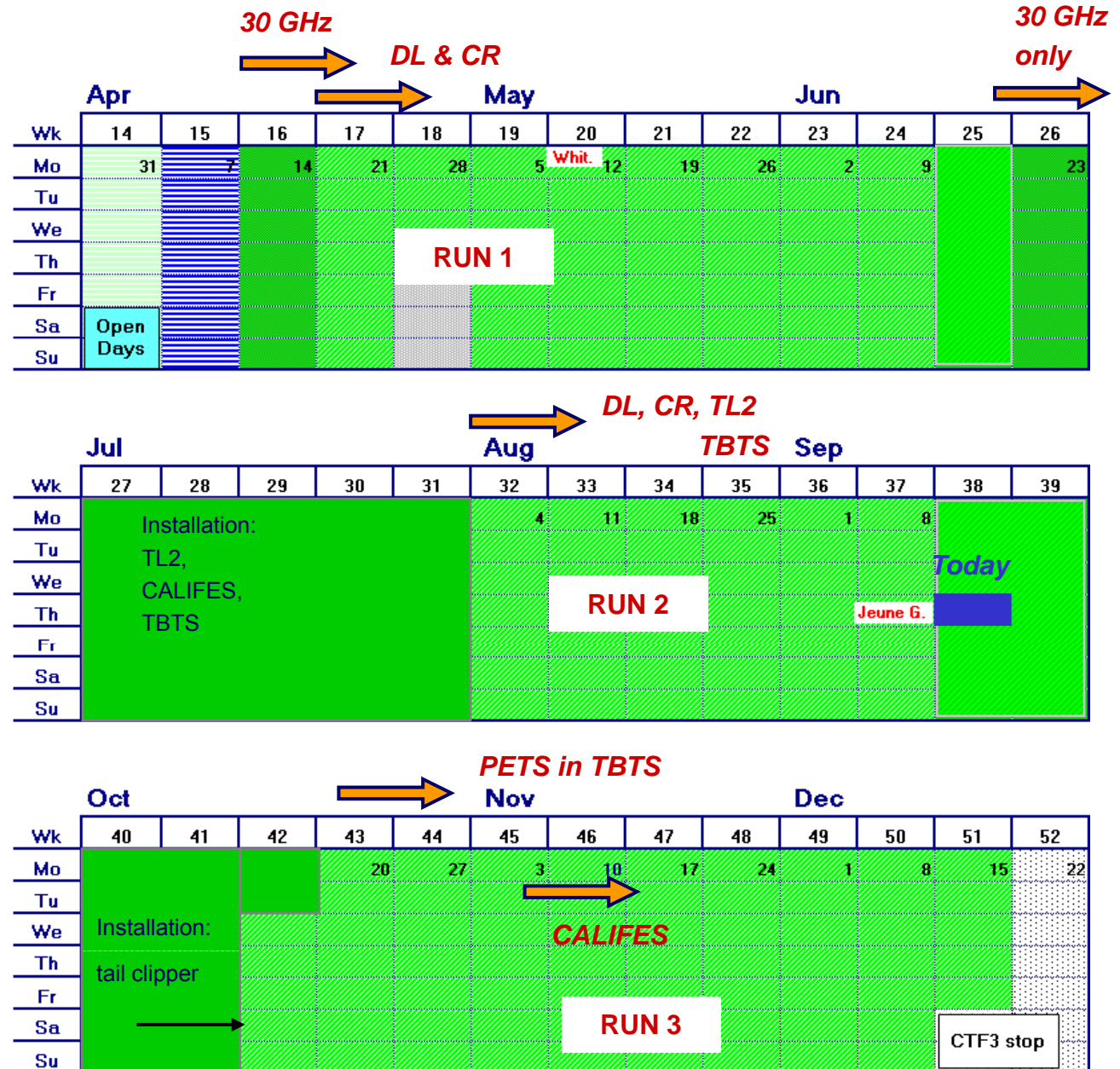




Status of CTF3 Commissioning & Operation

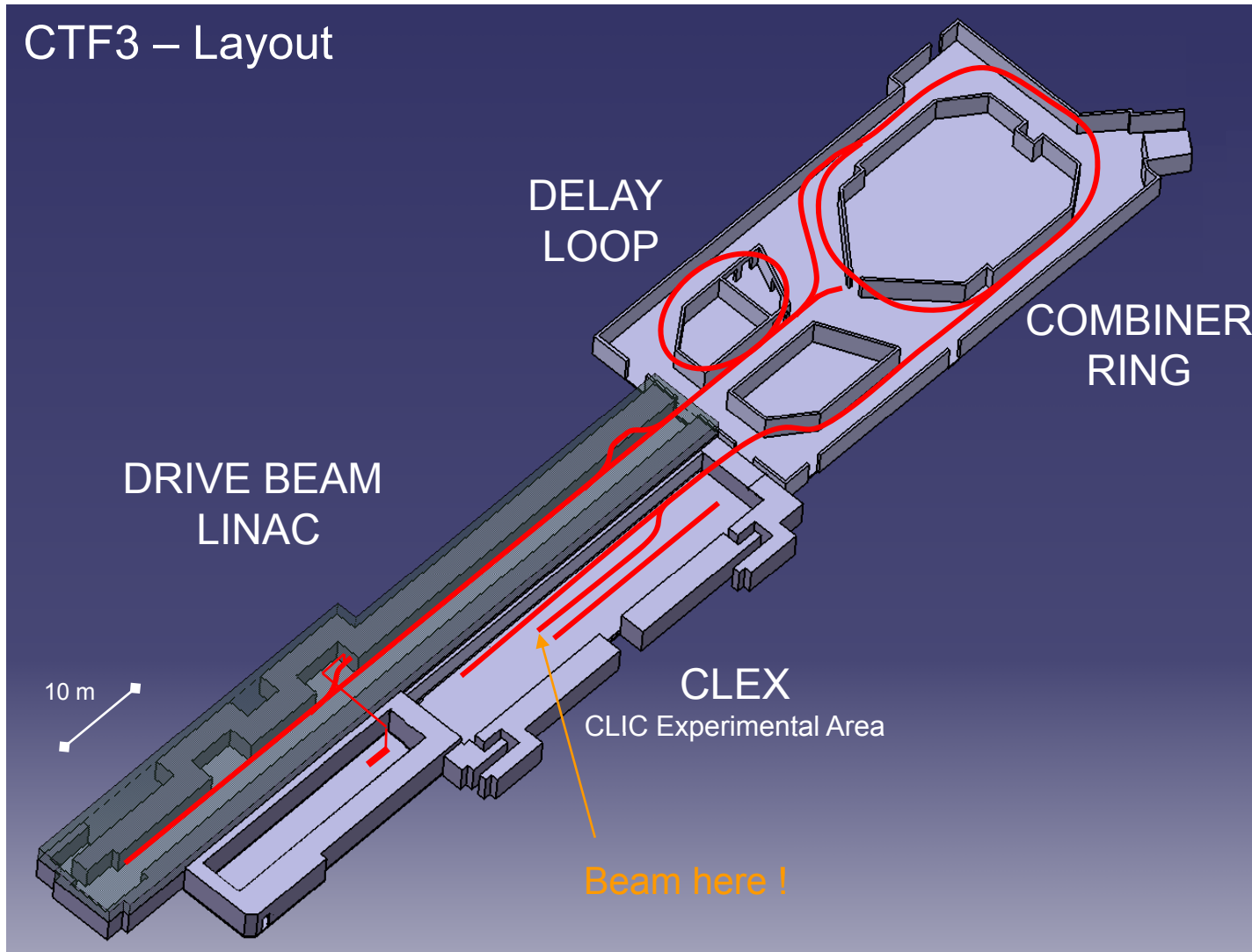
R. Corsini - CTF3 Committee 18 Sept 2008

Schedule





CTF3 – Layout





Goals & milestones 2008 run

- 1st run (April - June)
 - Injector & Linac: establish stable & documented working point, automatic beam steering & steering algorithm studies, diagnostics consolidation, stability studies, EUROTeV BPMs
 - Delay Loop: complete beam optics measurements (dispersion, orbit, kick measurements, matching), re-establish combination
 - TL1 & combiner ring: complete optics studies (dispersion, closed orbit correction, matching, tunes, kick measurements, quad displacement evaluation, matching), tune and β function dependence of vertical instability, factor four combination with DL bypass (≥ 10 A)
 - DL, TL1 & CR: factor 8 combination (≥ 15 A)
- 2nd run (July - September)
 - Complete DL + CR, new RF deflectors (20 A ?)
 - TL2 commissioning
 - First CALIFES commissioning
 - TBTS commissioning (no PETS)
- 3rd run (September - December)
 - Complete above program
 - Coherent Diffraction Radiation tests
 - TBTS, PETS running in



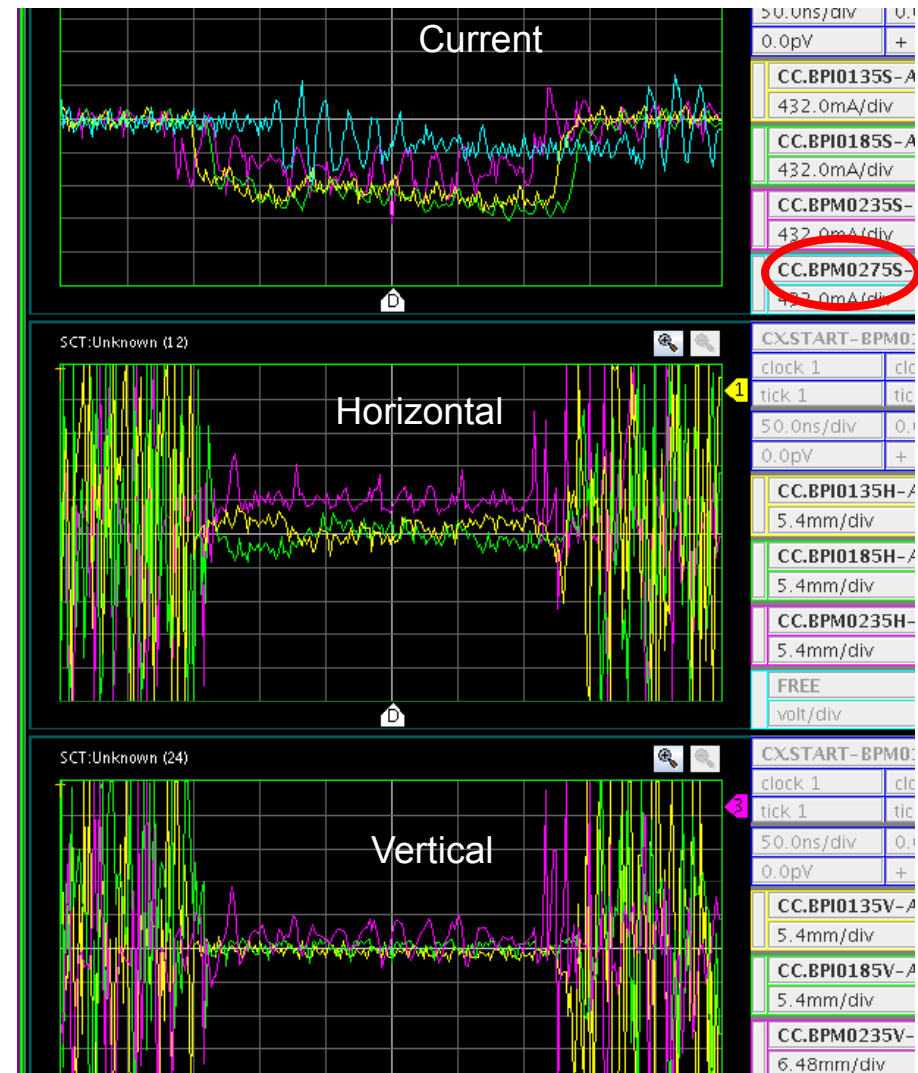
Goals & milestones 2008 run

- 1st run (April - June)
 - Injector & Linac: establish stable & documented working point, automatic beam steering & steering algorithm studies, diagnostics consolidation, stability studies, EUROTeV BPMs
 - Delay Loop: complete beam optics measurements (dispersion, orbit, kick measurements, matching), re-establish combination
 - TL1 & combiner ring: complete optics studies (dispersion, closed orbit correction, matching, tunes, kick measurements, quad displacement evaluation), tune and β function dependence of vertical instability, factor four combination with DL bypass (≥ 10 A)
 - DL, TL1 & CR: factor 8 combination (≥ 15 A)
- 2nd run (July - September)
 - Complete DL + CR, new RF deflectors (20 A ?)
 - TL2 commissioning
 - First CALIFES commissioning
 - TBTS commissioning (no PETS)
- 3rd run (~~September~~ October - December)
 - Complete above program
 - Coherent Diffraction Radiation tests
 - TBTS, PETS running in



Last CTF3 Committee

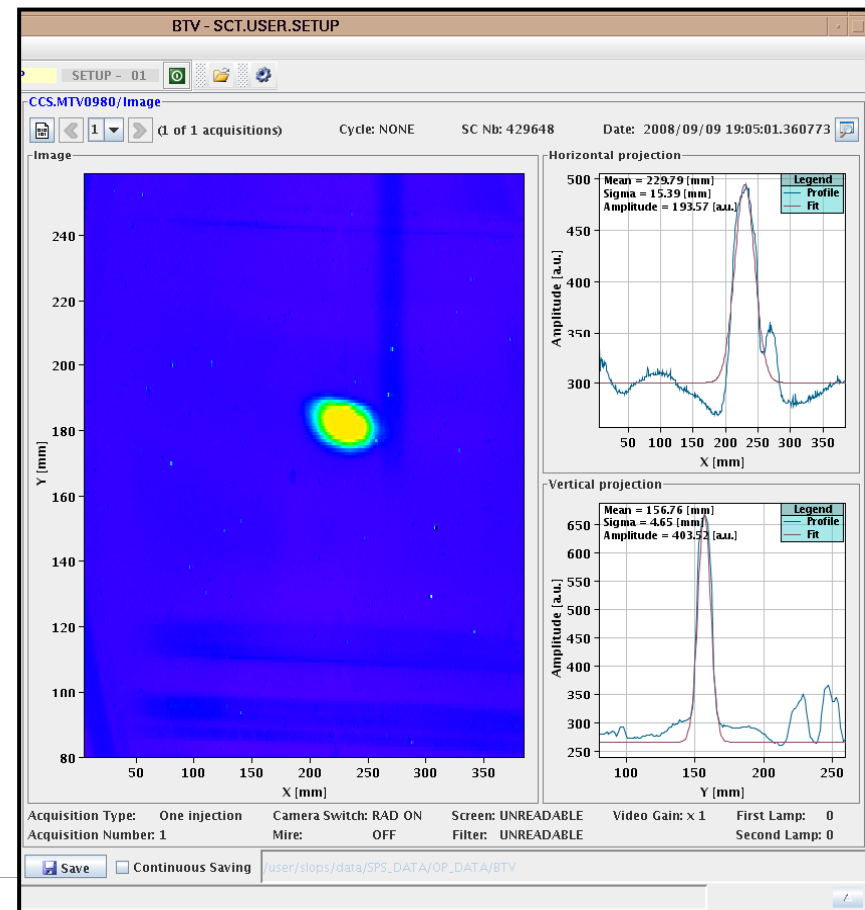
- First **beam extracted** into TL2 transfer line
- Strip-line **extraction kicker** in CR **working**
- LAPP BPM system shows signals
 - ~30 ns time jitter
 - OASIS problems
- Beam transported down the first part of the line





Now

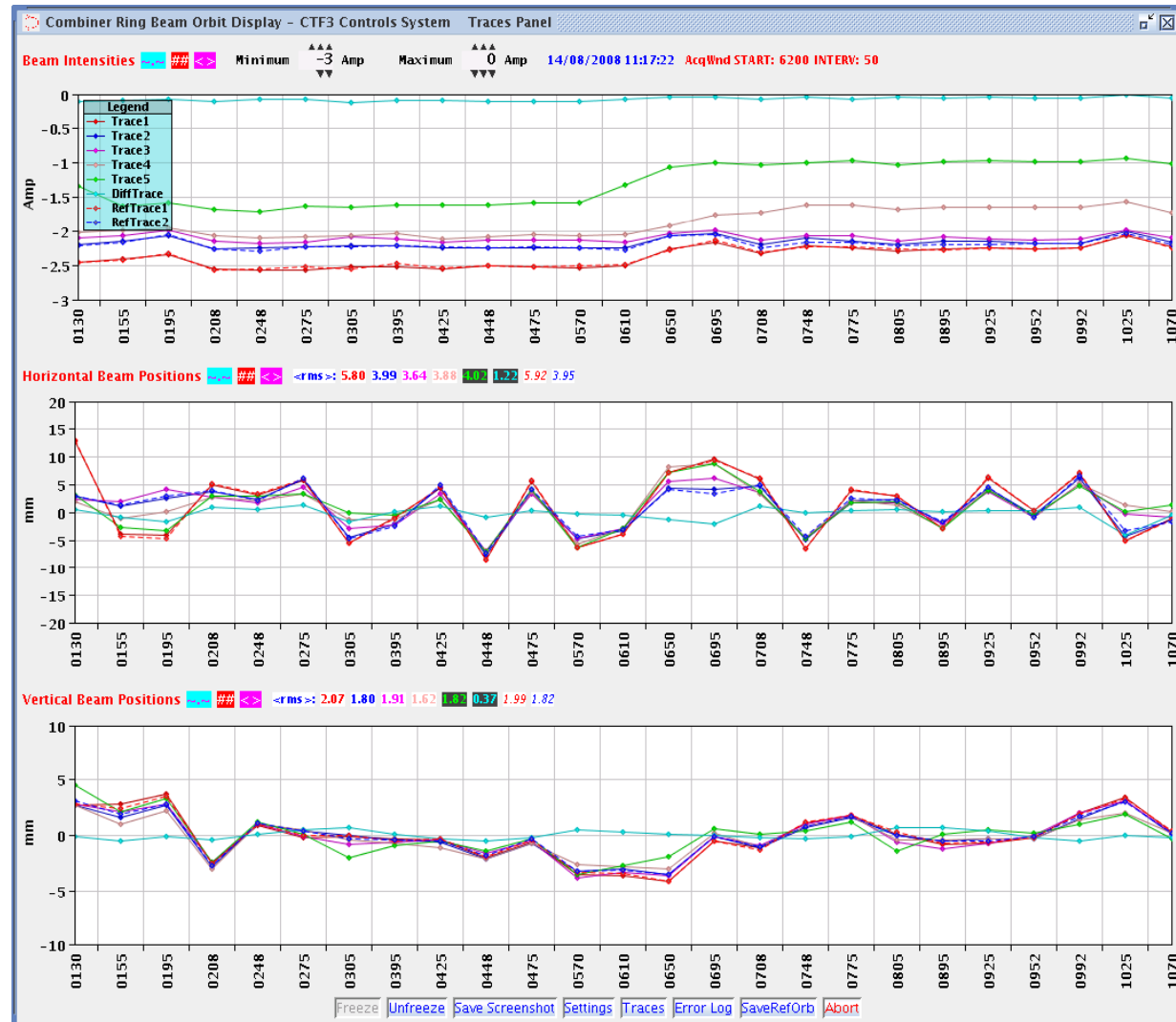
- Beam extracted at the end of TBTS line (~ 2 A)
- Still problems with LAPP BPM system + Oasis viewer (improving)
- First attempt at optics measurements (ongoing)





Last CTF3 Committee

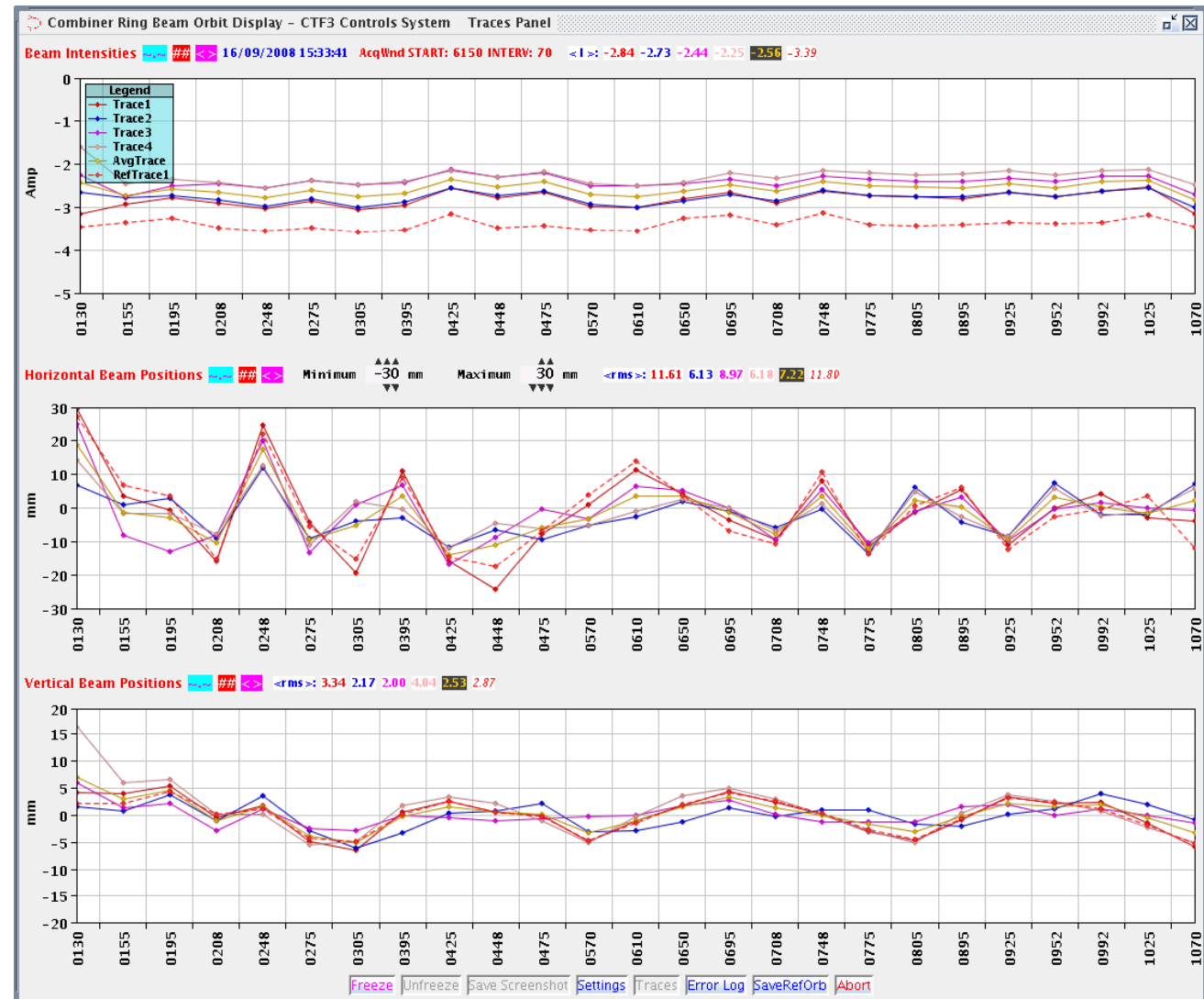
- MAD model improved
- 4 turns with some losses (2.5 A)
- Good closure
- Tune to be measured
- Vertical instability limiting





Now

- MAD model further improved
- 4 turns with small losses (3 A)
- Tune measured
- Vertical instability limiting





Beam Studies ('LINAC 08)

- Steering & correction algorithm studies in linac
- Bunch length, longitudinal beam dynamics studies
- Time resolved energy spectrum, beam loading compensation studies



Outlook

