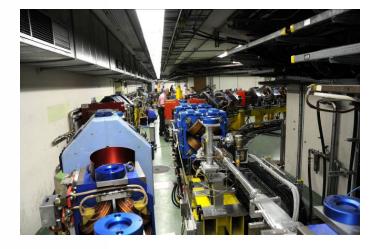
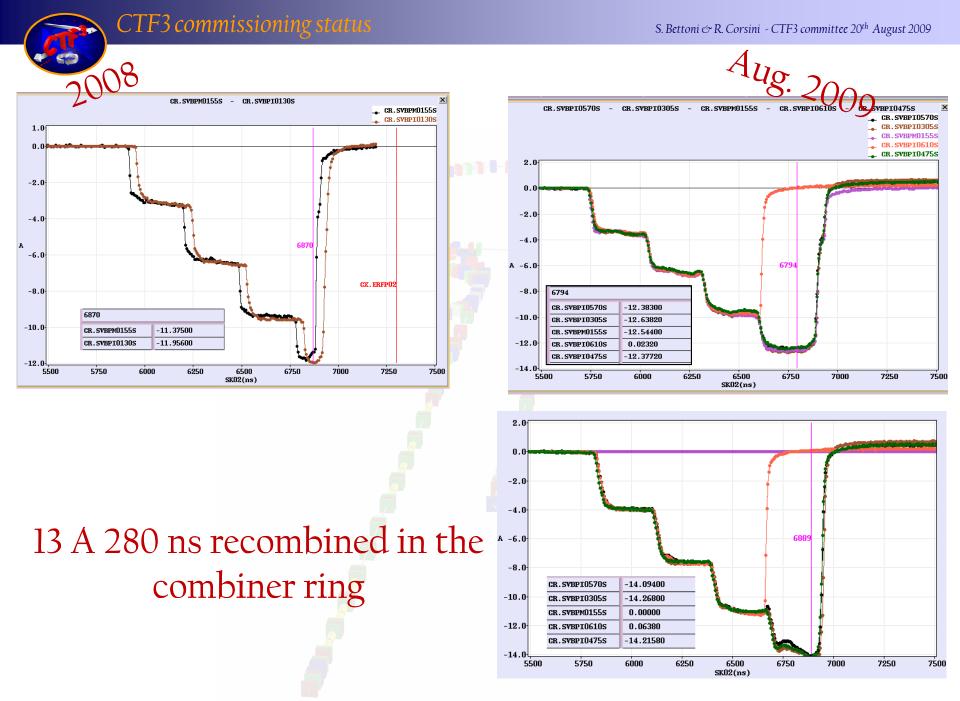


CTF3 commissioning status & schedule update

Outline

- Activities & achievements:
 - Successful 4x recombination
 - More than 5 A sent through the PETS
 - Time to bunch length experiments
- Setbacks:
 - Lapp BPM
 - Phase of MKS02
 - Gun





S. Bettoni & R. Corsini - CTF3 committee 20th August 2009

water and the second



CAS.MTV 0830

CAS.DUM 0840

CAS.BPM 0820

CA.BHB 0800

CA.VPI 0780 CA. QFD 0770 CA.QDD 0765 CA. QFD 0760 CA.BPM 0750 CA. DHJ/DVJ 0740 CA.VPI 0730 CA.BPM 0720 DHJ/DVJ 0715

CTF3 commissioning status

CA. WS 0700

A

\$

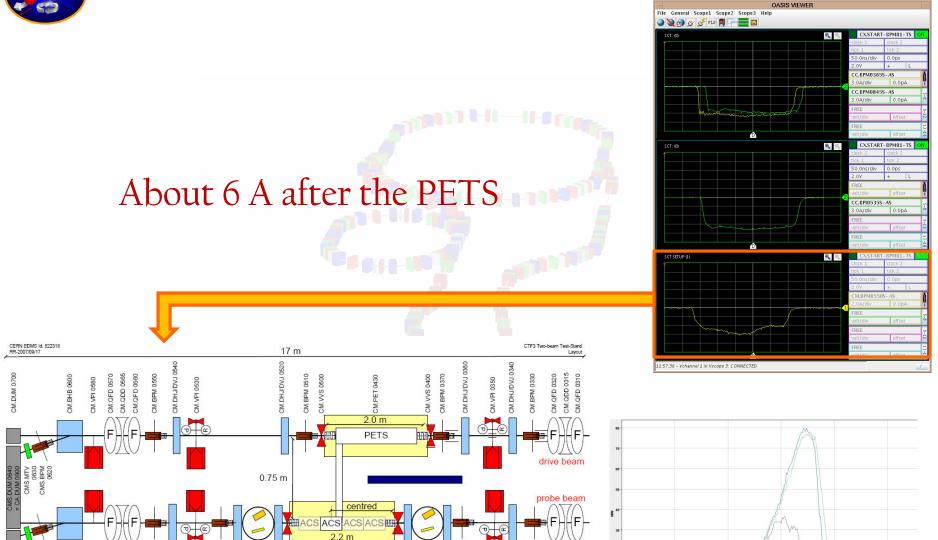
CA. ACS 0631

CA.VVS 0600 CA.DHJ/DVJ 0590 CA.DET 0585 CA.FCU 0580 DHJ/DVJ 0570

CA.BPM 0560

S

CA.VPI 0550 CA.DHJ/DVJ 0540



CA. QFD 0520 (CA. QDD 0515 CA. QFD 0510 (

WWW. March March March

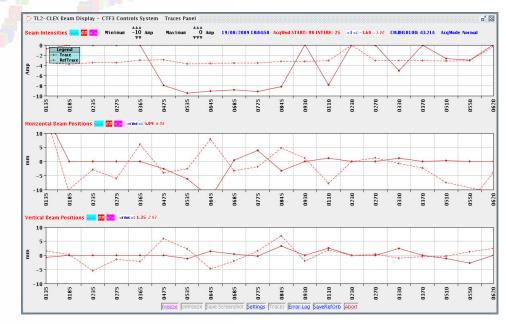
CA.BPM 0530



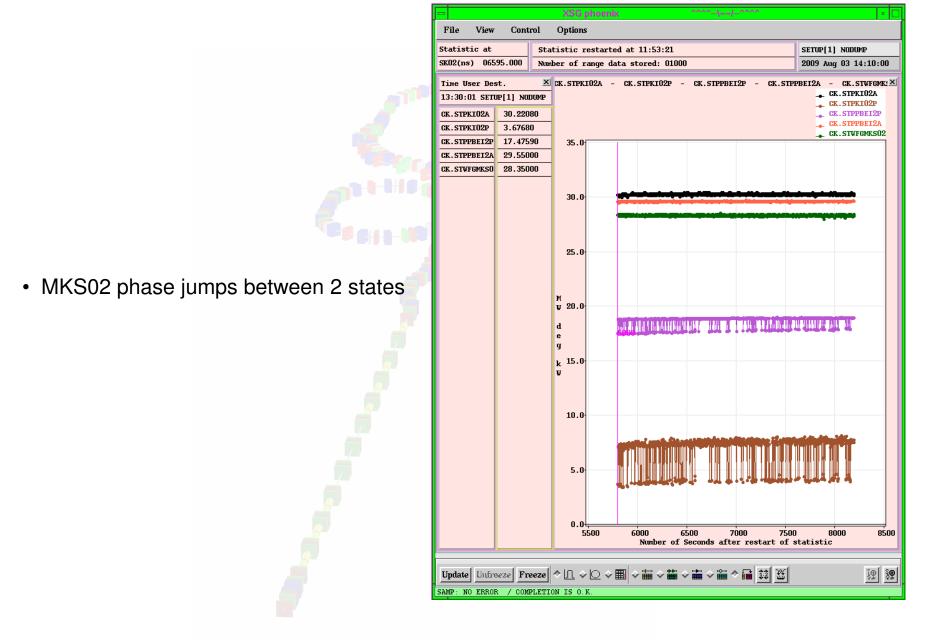
CTF3 commissioning status

Other issues:

- Lapp BPM:
 - Frequent interventions are needed (also accesses in the machine)
 - Almost constant contact with the LAPP people local help from Franck Guillot (CERN)
 - Annoying system (necessary to readjust all the timings one by one after each frequent reset)
 - At the present we are blind for the majority of the line
- Phase of MKS02 jumps of some degrees:
 - Monitoring system installed
 - At the moment the problem disappeared
- Gun instability:
 - Problem solved (for the moment...)









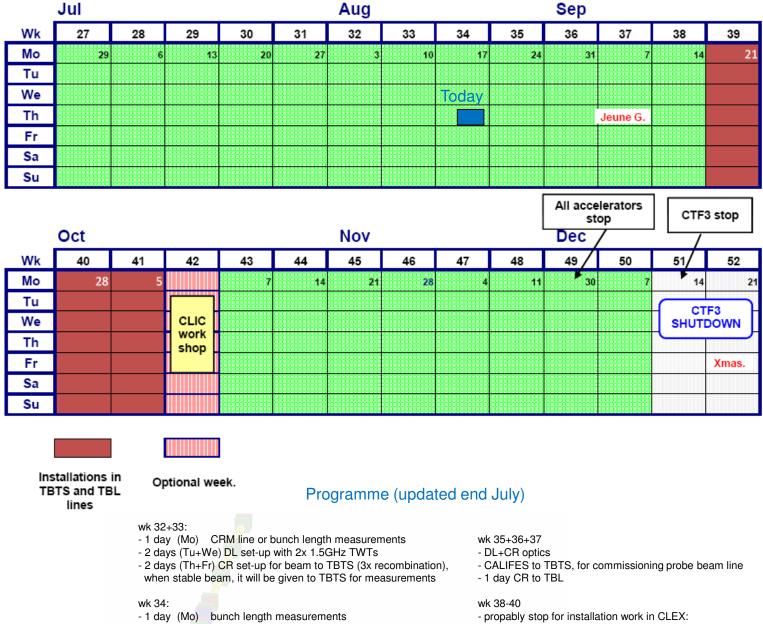
2009 CTF3 experimental program

Goals

• 30 GHz:	One structure test (TM02) + breakdown studies
• PHIN	Beam characterization, reach 1/2 of nominal bunch charge ?
CALIFES	Beam characterization, beam to TBTS (most likely still reduced current)
 Delay Loop 	Back in operation, retrieve combination x 2 (~ 7 A)
Combiner Ring	Final optics checks, isochronicity, put together with DL (> 24 A)
• TL2	Complete commissioning (tail clipper), bunch length control, > 20 A to users
• TBTS	PETS to nominal power/pulse length (15 A, recirculation) Beam commissioning of probe beam line First accelerating structure tests (one structure ? – CLIC G) Two-beam studies (deceleration/acceleration), initial breakdown kicks studies
• TBL	PETS validation (100 MW, need > 20 A), beam line studies (2-3 PETS ?)
Others	CDR studies in CRM, beam dynamics benchmarking, stability studies, control of beam losses



CTF3 commissioning status



- 4 days (Tu-Fr) CR beam to TBTS

TBTS accelerating structure, TBL continuation