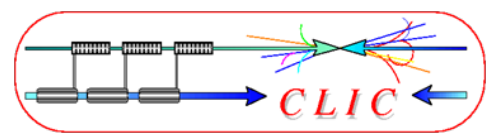


Last meeting's planning

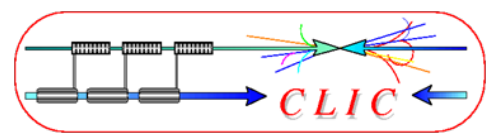


	Apr			May					Jun						
Wk	14	15	16	17	18	19	20	21	22	23	24	25	26		
Mo	30	6	Eastr	13	20	27	4	11	18	25	Whit.	1	8	15	22
Tu	CALIFES + TBTS Beam		CLEX shut-down only			PAC conf.		Beam in DL							
We	CALIFES + TBTS Beam		CLEX shut-down only			PAC conf.		Beam in DL							
Th	CALIFES + TBTS Beam		CLEX shut-down only			PAC conf.		Beam in DL							
Fr	G. Frid					1 st May		Ascen							
Sa															
Su										No laser Beam for CALIFES and PHIN					

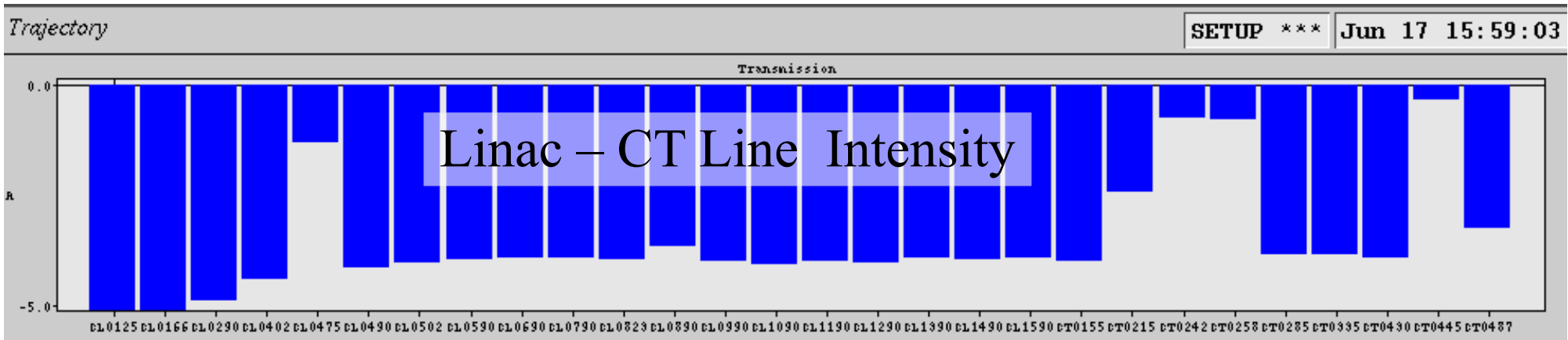
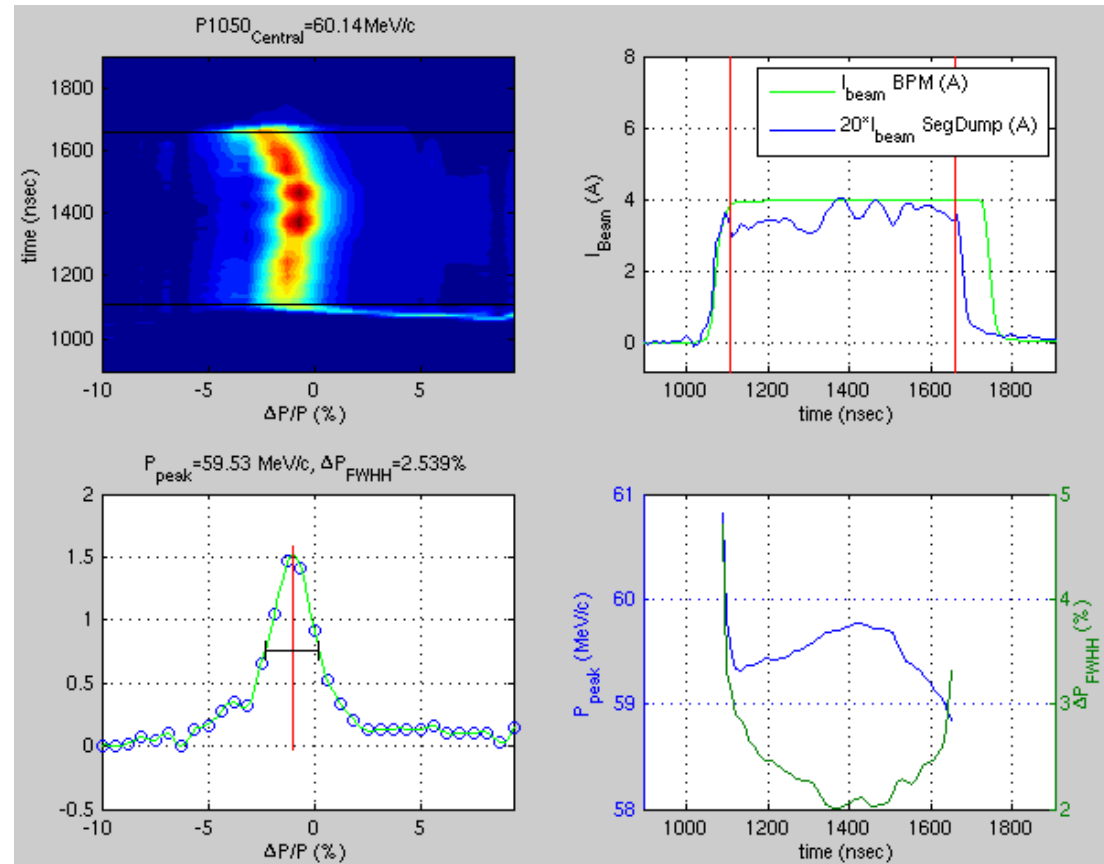
DL

- continue optics studies
- set up 1.5 GHz beam
- combine
- CR optics studies
- TL2 optics studies (new screens)
- send beam to **TBTS/TBL**

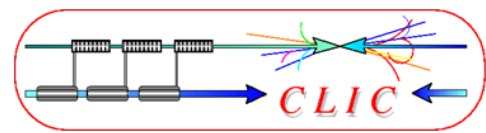
Delay Loop



- 3 GHz beam optics studies: kick measurements
- 1.5 GHz beam setup to DL
 - SHB optimized
 - good transmission to DL
 - not yet combined



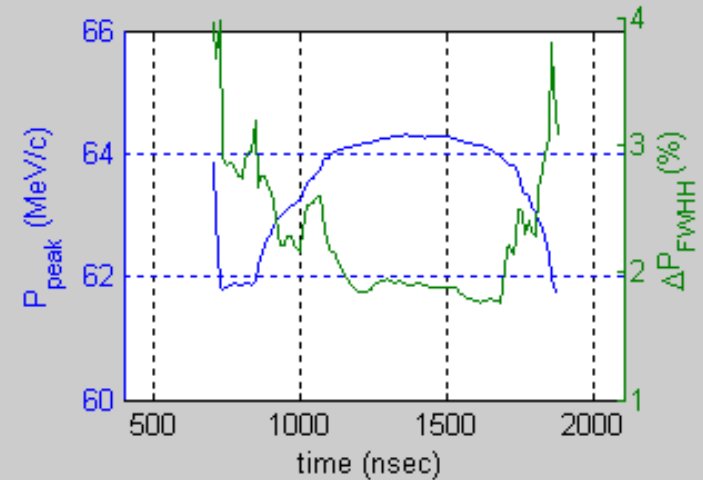
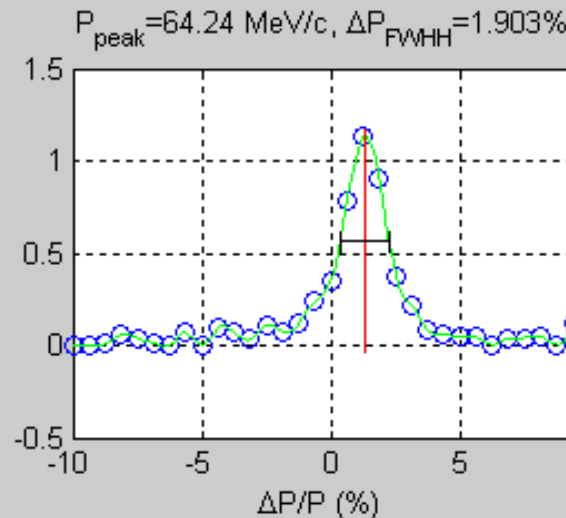
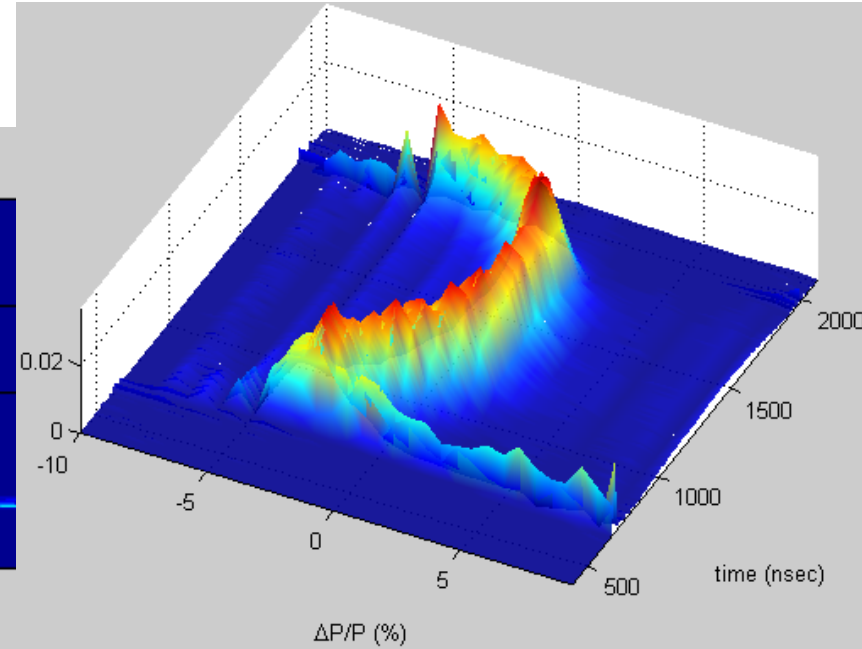
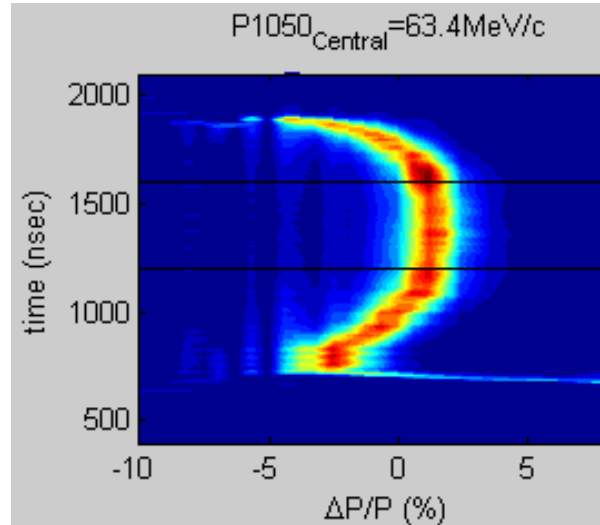
Energy spread optimization



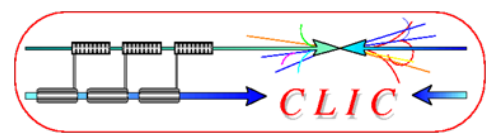
- Injector, slit, and RF further optimized by segmented dumps spectrometers 04/10 + CTS (3 GHz beam)

- bunch $< 2\%$ $\Delta E/E$ (FWHM)

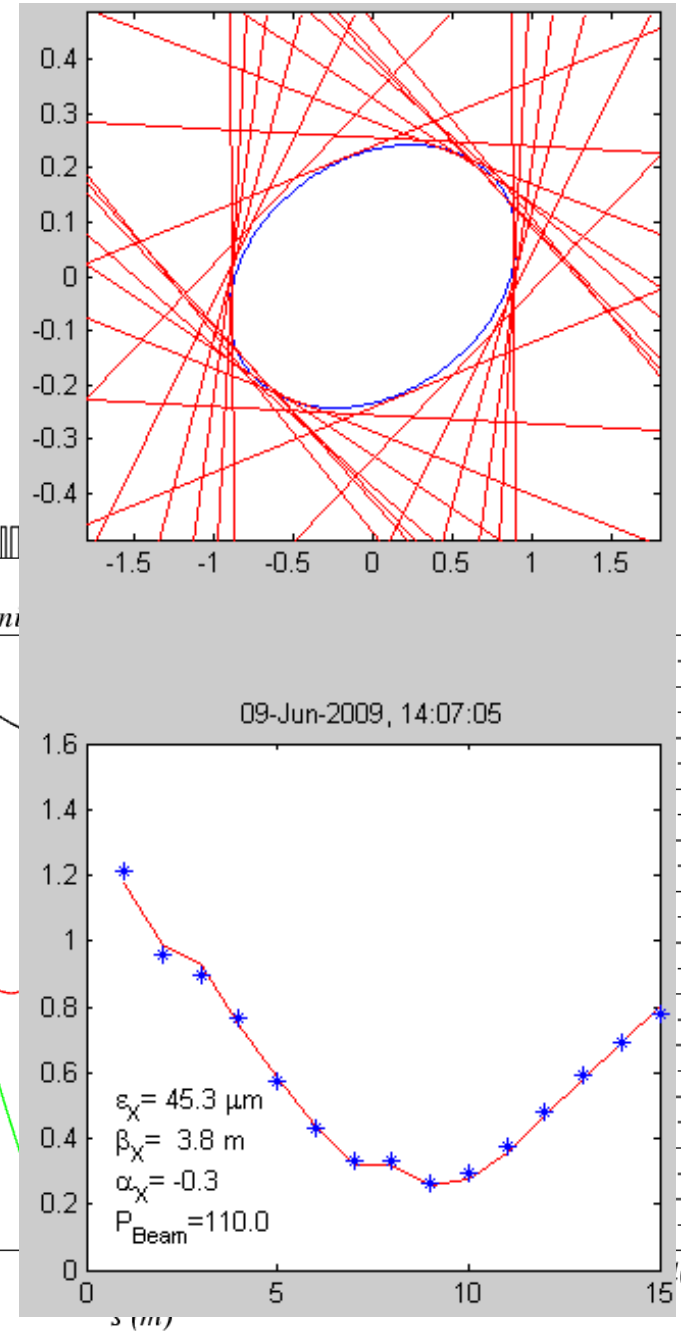
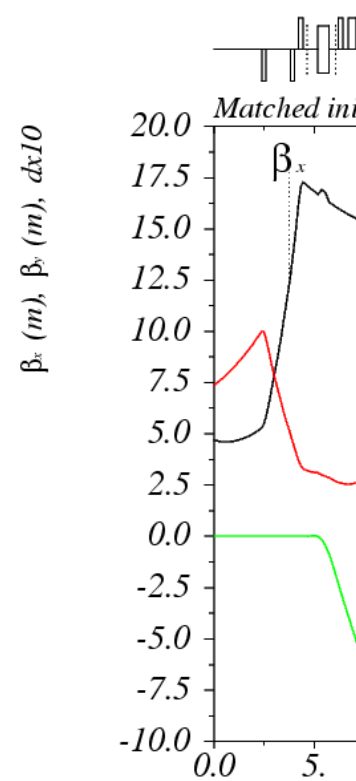
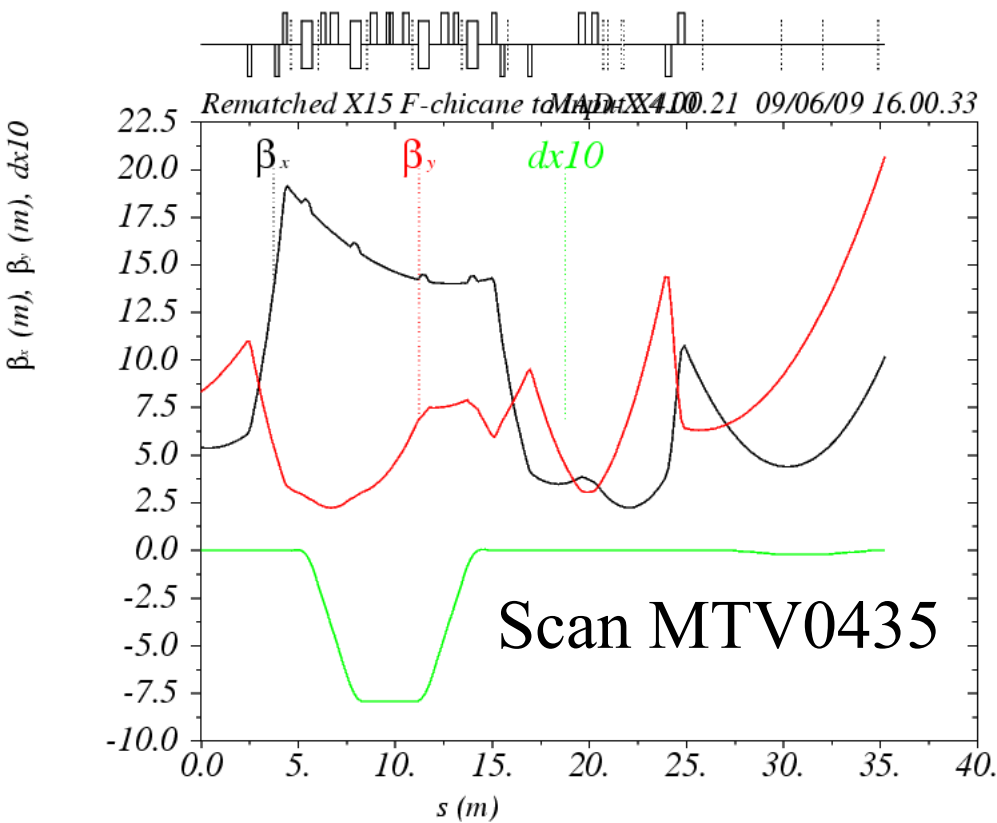
- Lower losses in CT chicane



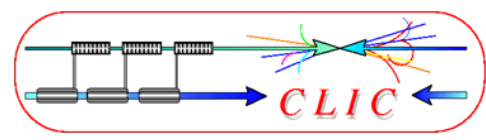
Quad scans / MAD model



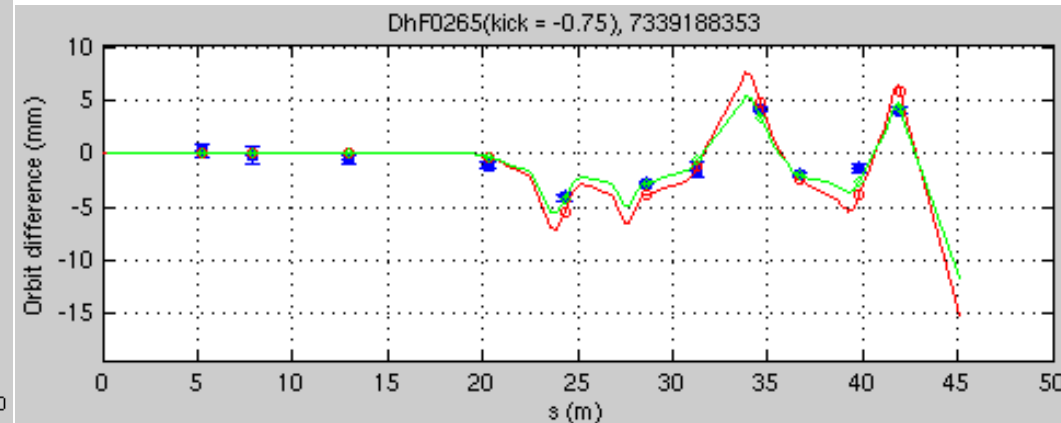
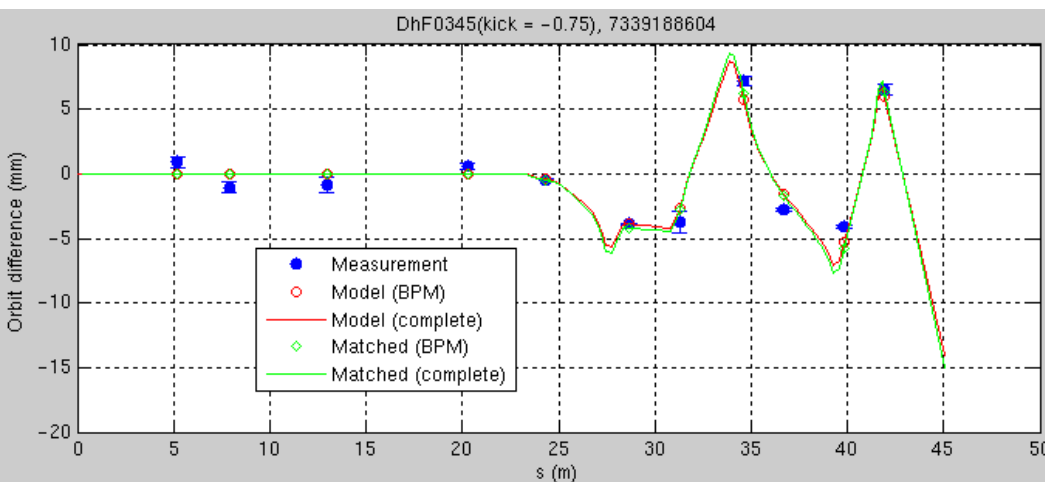
- discrepancy between scans on CT.MTV0435 and 0550
- scan very sensitive to small beam sizes
- careful scans give very good agreement between the MTVs



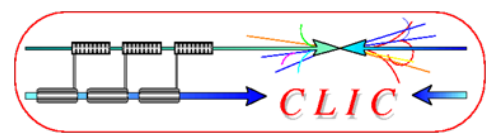
MAD model



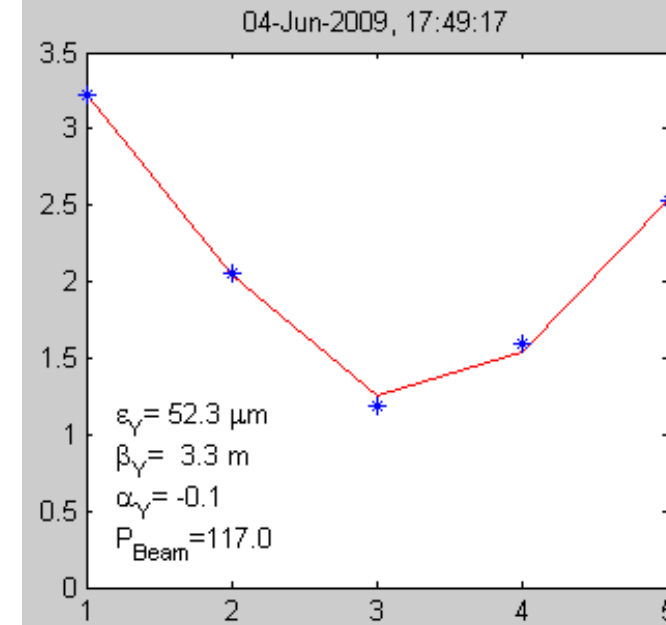
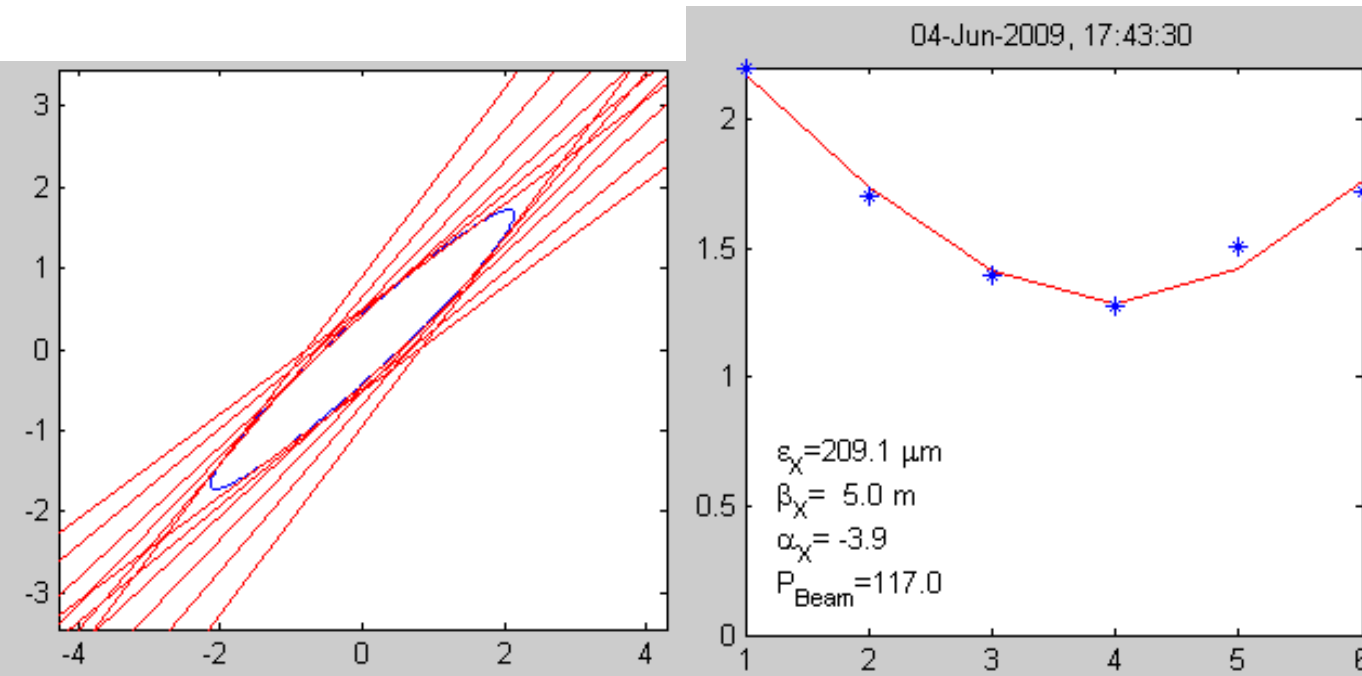
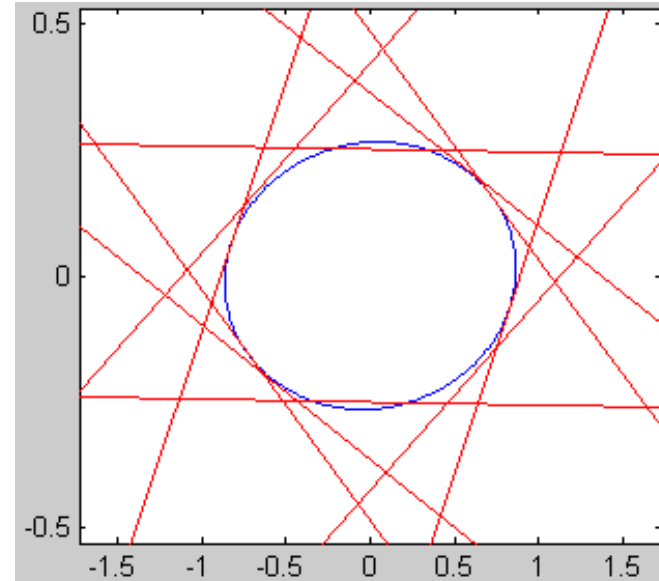
- response matrix measurements (single corrector kicks) analyzed
- disagreements in vertical plane in TL1
- analysis still being completed
- TL2 measurements agree well (especially in 2nd part of the line)
- 1st part to be re-measured



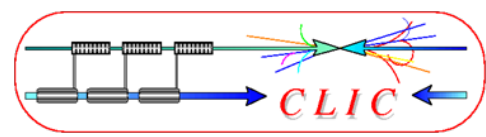
TL2 Line



- Beam established until CLEX wall (old optics)
- had teething problems with the BPM system
- works well now
- Kick measurements
- Quad scans in MTV screen
- Rematching not conclusive (BPMs down)



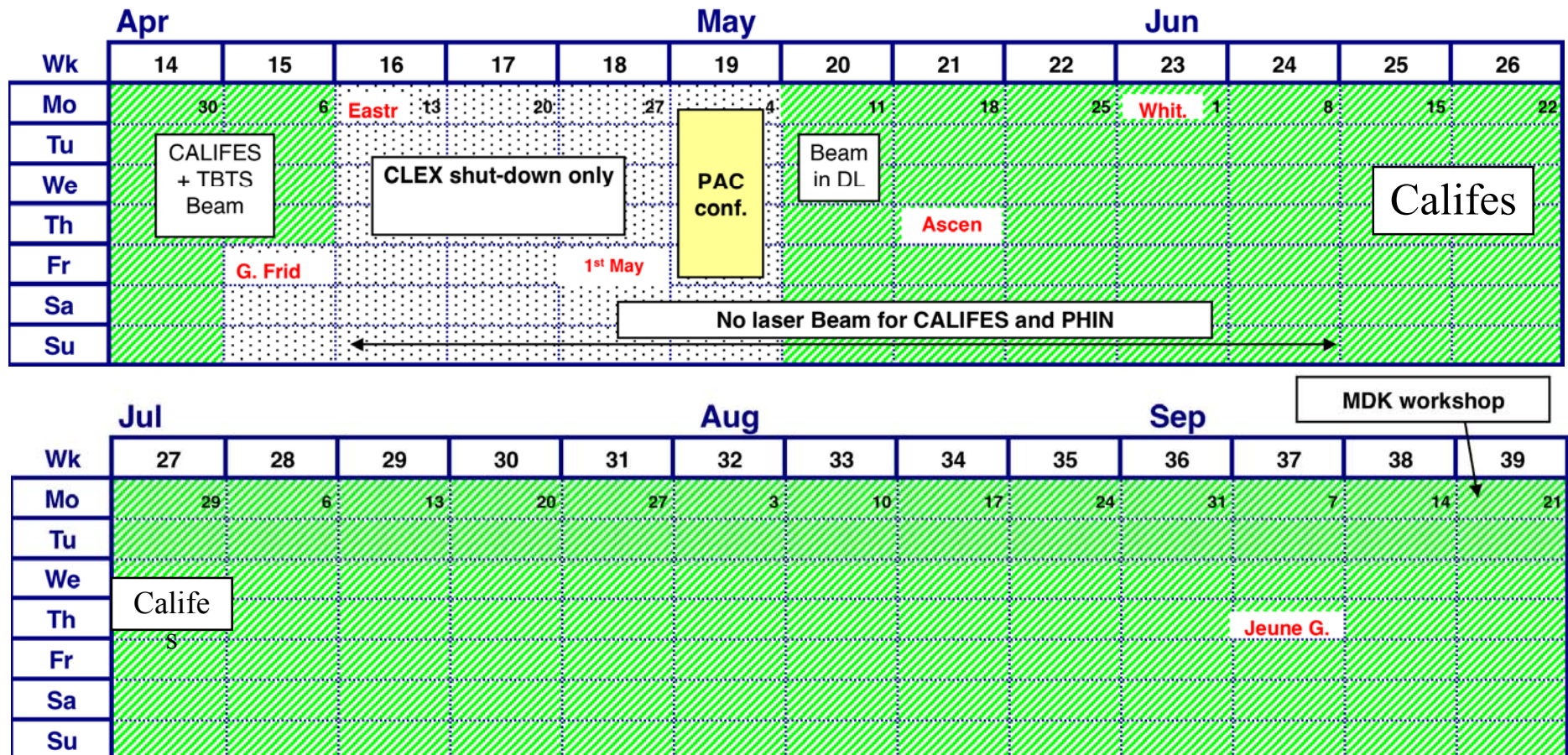
Various



- MKS03 had another **HV diode broken** that needed replacement
lost week-end for PETS 30 GHz beam
repair took 1½ days
potential problem with spares, PO studies alternative
- 30 GHz operation on week-ends with mixed success
one more good week-end needed
- Laser for CALIFES optimized (=> Massimo)
- CALIFES operation restarted (=> Wilfrid)
- today klystron tube of MKS11 broke (1-2 days down time)
- Reference sheets for RF and BPM signals **extremely useful**
to reproduce settings!

Schedule

- installation of acc. structure in CLEX after mid-Sept (1-2 weeks)
- MTV installation in TBTS
- TBL installation





2009 CTF3 experimental program

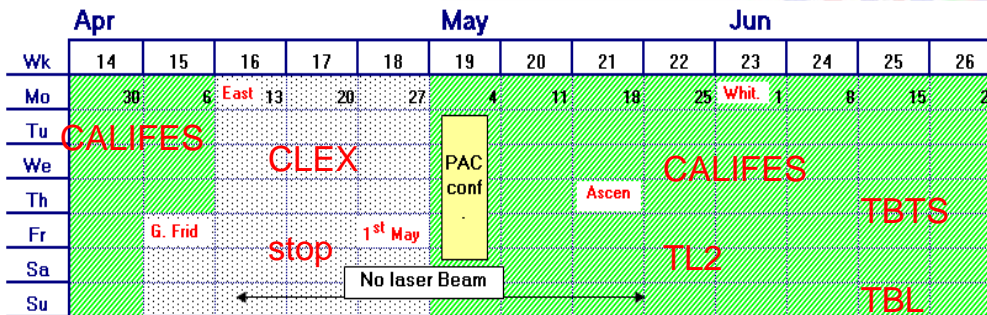
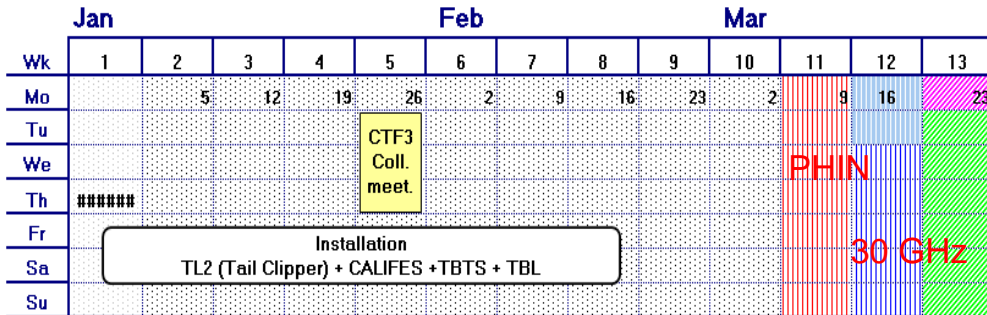
Goals

- 30 GHz: One structure test (TM02) + breakdown studies
- PHIN Beam characterization, reach $\frac{1}{2}$ 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...



2009 CTF3 experimental program

What could we reasonably achieve before summer?



TL2, TBL, TBTS (DB)



Delay Loop C. Ring

- 30 GHz: One structure test (TM02) + breakdown studies
- PHIN: First tests, (reach 1/2 of nominal bunch charge)
- CALIFES: Beam characterization, beam to TBTS
- Delay Loop: Back in operation, retrieve combination x 2 (~ 7 A)
- Combiner Ring: Final optics checks, isochronicity,
- TL2: Complete commissioning (tail clipper)
- TBTS: PETS to nominal power/pulse length (15 A, recirculation)
- Beam commissioning of probe beam line: Two-beam studies (deceleration/acceleration), initial breakdown kicks studies
- TBL: beam line studies (2-3 PETS ?)
- Others: CDR studies in CRM, beam dynamics benchmarking, stability studies, control of beam losses...

some more time later
 need 2nd run later
 reduced current, full characterization later
 will be difficult ...
 put together with DL (> 24 A) most likely later!
 bunch length control, 20 A to users

First accelerating structure tests

PETS validation (100 MW, need > 20 A),