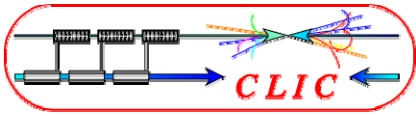
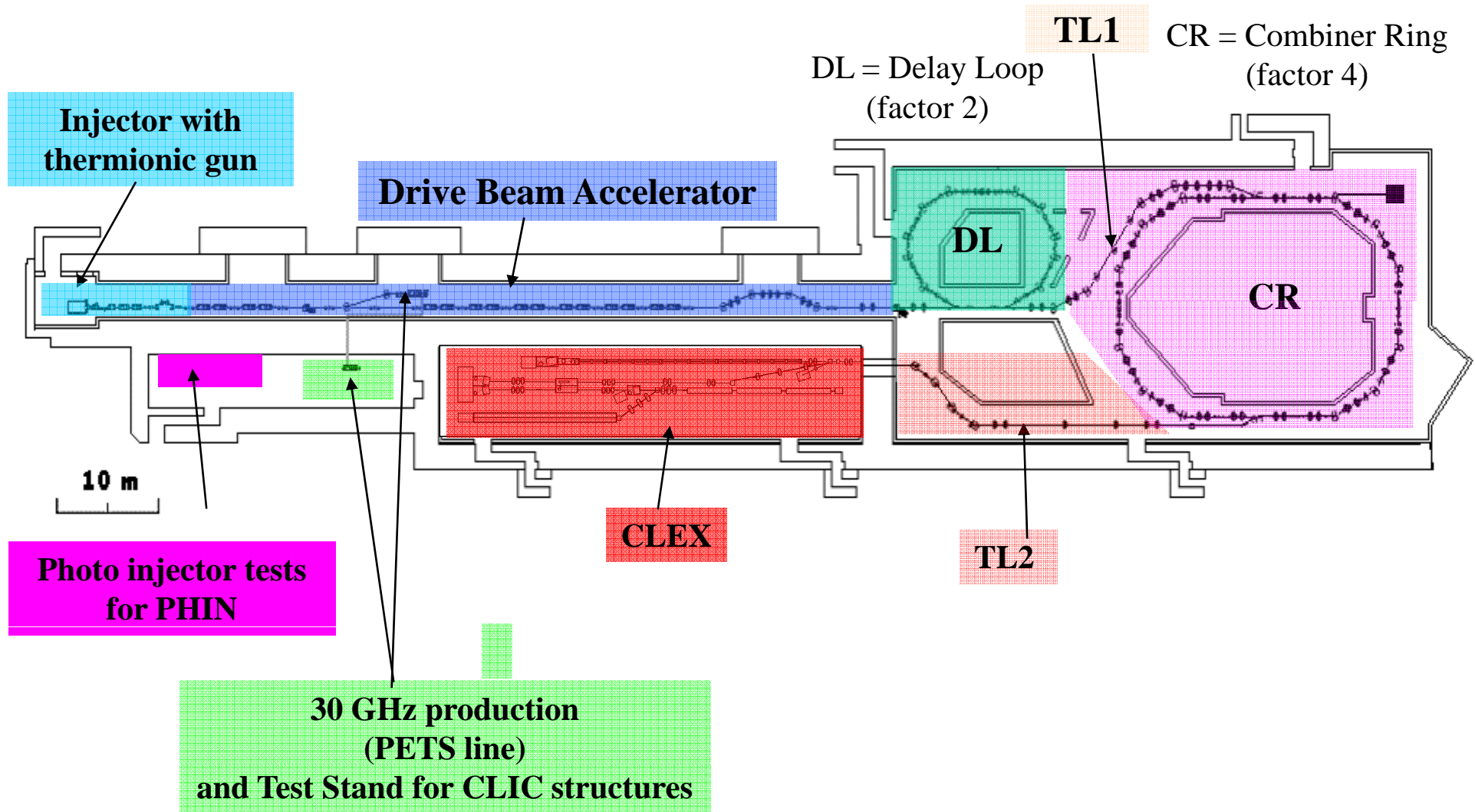


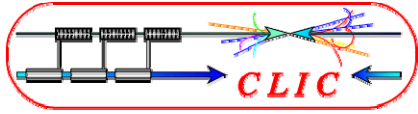
Update on CTF3 installation and planning

L. Rinolfi



CTF3 layout





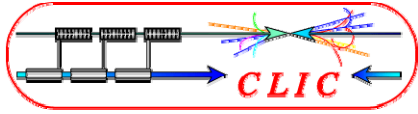
Conclusion of the 2nd meeting



- Installation into the Injector, Drive Beam Linac, Delay Loop, Transfer Line TL1 and Combiner Ring => **OK**

- Installation of the **Transfer Line TL2** connected to the Combiner Ring for the end of June 2008 but:
 - Indian dipole magnets ? **Magnetic measurements finished today**
 - Power supplies for dipolar correctors ? **Next slide**

- Installation into **CLEX (Phase 0)** will be finished for the end of June 2008 but:
 - Laser for CALIFES ? **See K. Elsener talk**
 - **Strong request from CARE to finalize the test as deliverable for EU-FP6-JRA-PHIN** **Meeting with R. Aleksan (CARE coordinator)**



Power supplies for correctors



Information provided by L. De Oliveira AB/PO to the TIC meeting yesterday

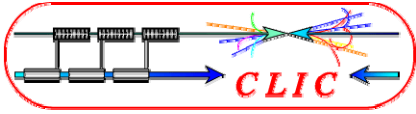
75 power supplies have been ordered (including spares)

67 power supplies should still be installed (due to delay from company)

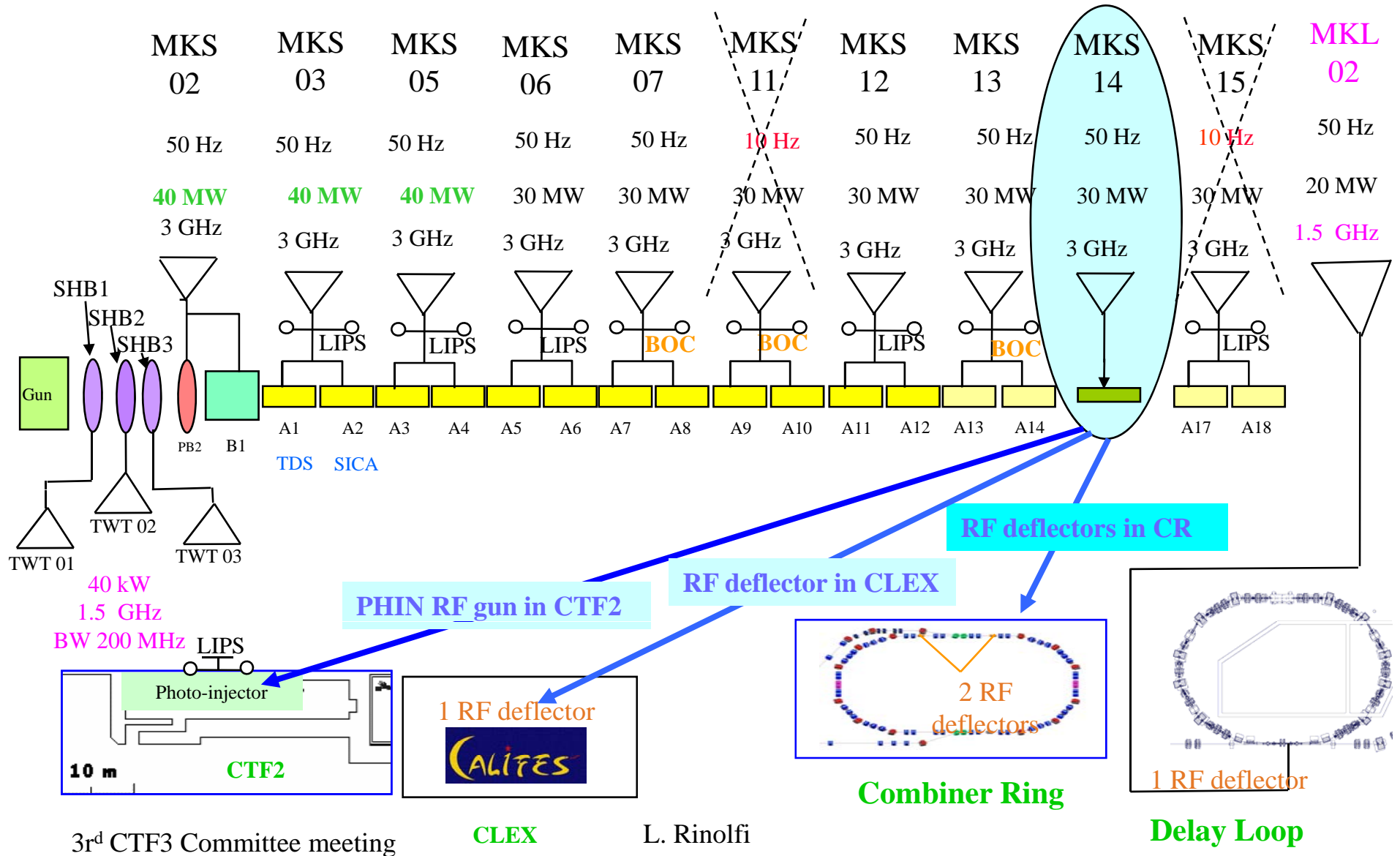
12 power supplies should arrive at CERN next week

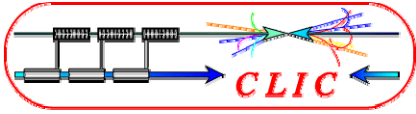
Then batch of 20 power supplies should be delivered at CERN every 2 weeks => **all power supplies at CERN ~ mid August 2008**

All power supplies (TL2 and CLEX) **operational for end of August 2008**



Klystrons





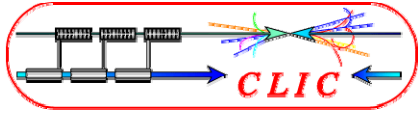
Combiner Ring



RF deflectors CR. HDS 0150 & CR.HDS 1050

In order to cure the vertical instabilities, two new (3 GHz) RF deflectors (in Al) have been designed by LNF (Frascati) and are under construction.





RF deflectors



Information provided yesterday by A. Ghigo / LNF

All cells are ready to be assembled

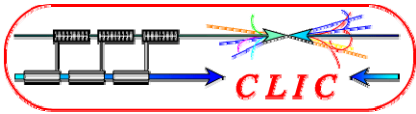
All feedthrough are expected end of June at Frascati

Low level RF tests in July at Frascati

Trieste is in shut-down with all klystrons until October 2008 => No RF power tests in Trieste (same as PSI)

RF power tests to be planned at CERN

Installation into the Combiner Ring => 2 weeks shut-down in October



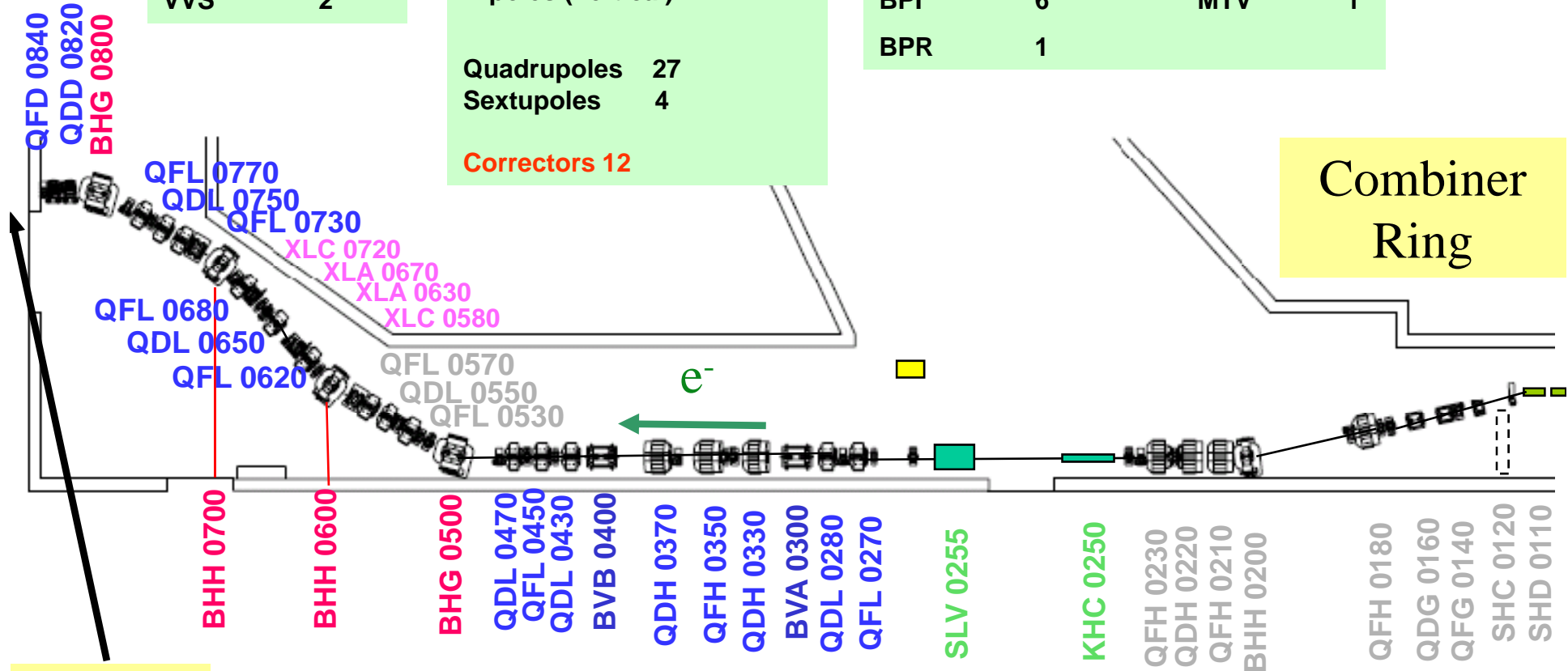
Transfer Line TL2



Vacuum	
VPI	9
VVS	2

Magnets	
Dipoles (Horizontal)	5
Dipoles (Vertical)	2
Quadrupoles	27
Sextupoles	4
Correctors	12

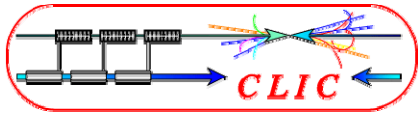
Instrumentation			
BPM	6	WCM	1
BPI	6	MTV	1
BPR	1		



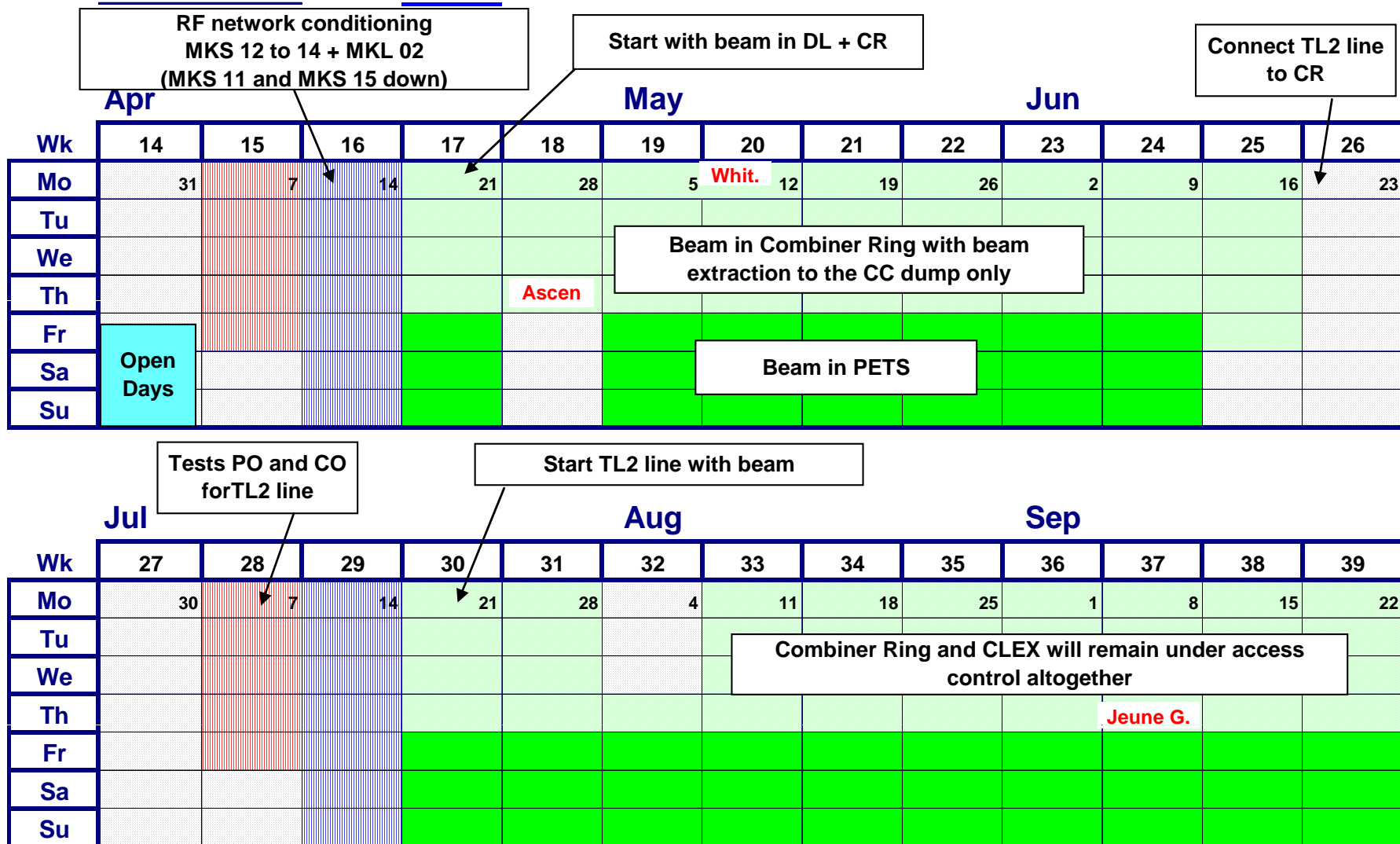
CLEX

**Collimator
2008/2009
shut-down**

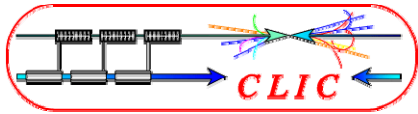
**Tail Clipper
October 2008 ?**



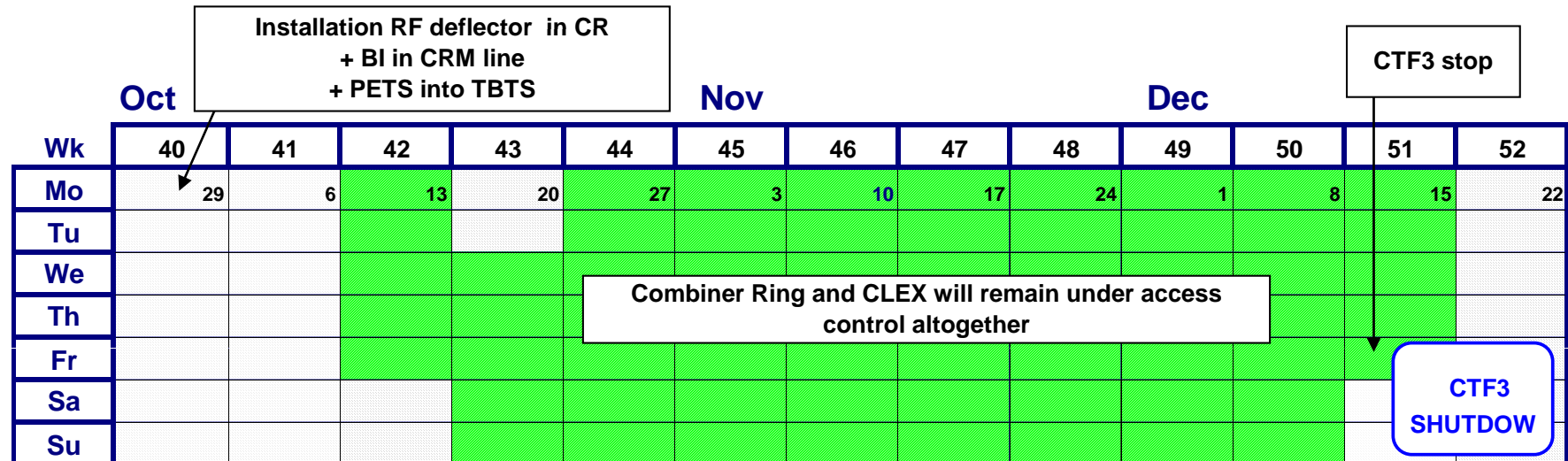
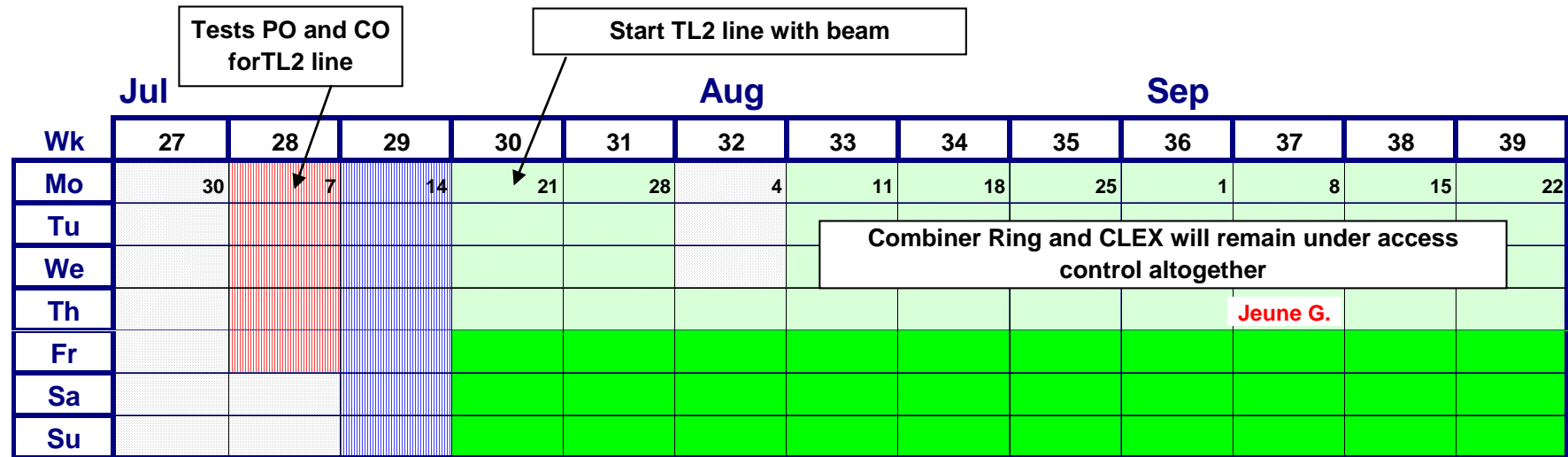
CTF3 - DL - CR - TL2 Schedule





<https://edms.cern.ch/document/862088/>





CTF3 - DL - CR - TL2 Schedule




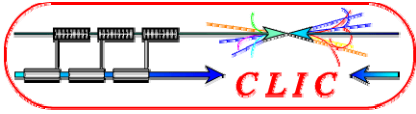
 CR closed with keys for Hardware tests

 CR under access control

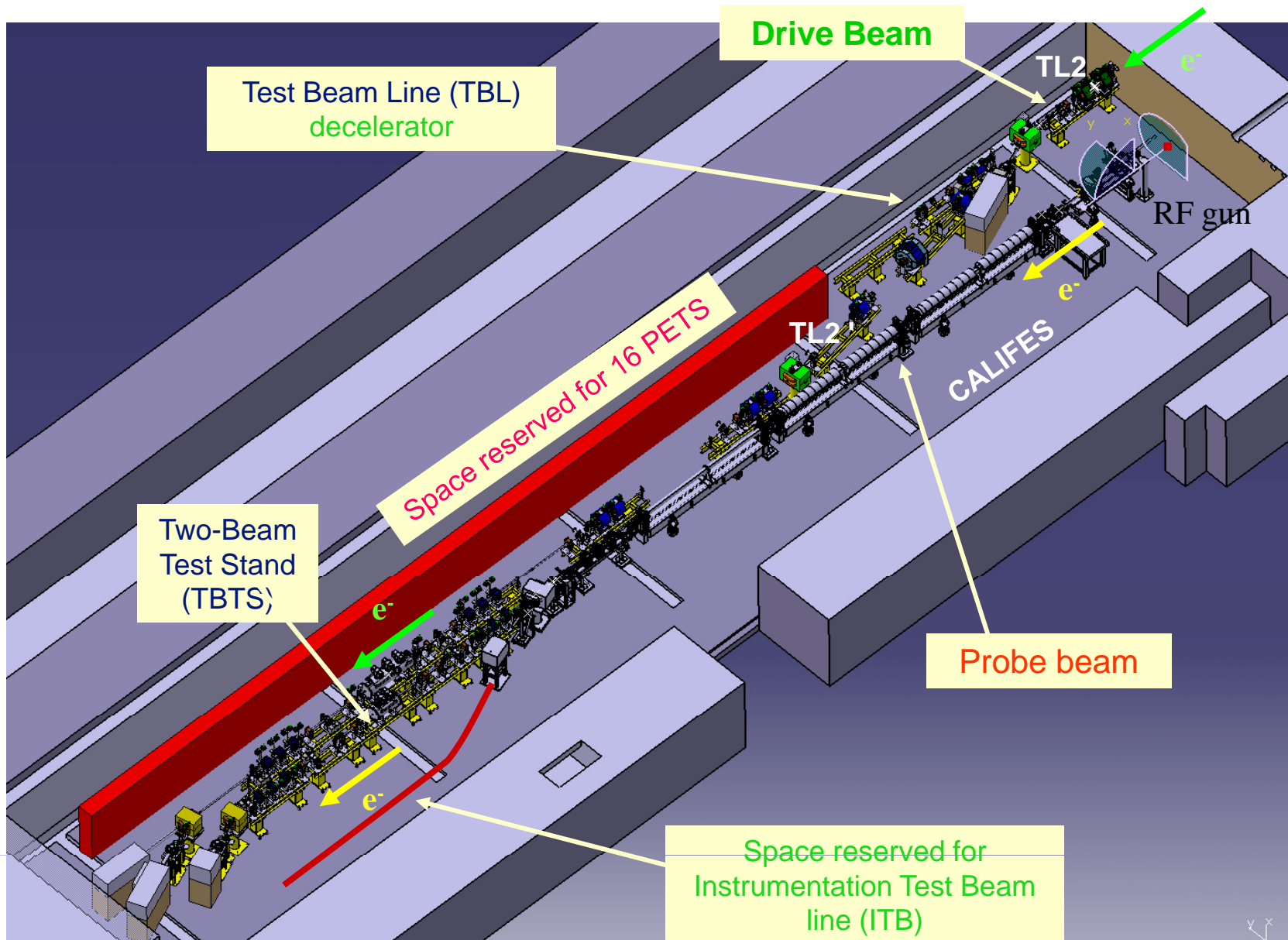
 CR with beam

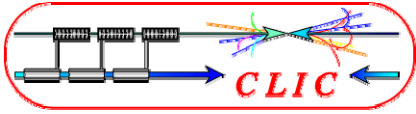
 CR open with control access

 Machine open



CLEX Layout





CLEX status



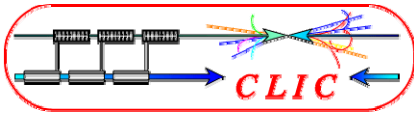
1) TL2, TL2'

- Installation of dumps
- Alignment finished yesterday
- Some vacuum chambers remains to be installed

2) CALIFES => see F. Peauger talk

- RF gun with water leak => See K. Elsener talk
- Alignment done
- RF wave guides still foreseen to be at CERN next week

3) TBL => see S. Doebert talk



TBTS

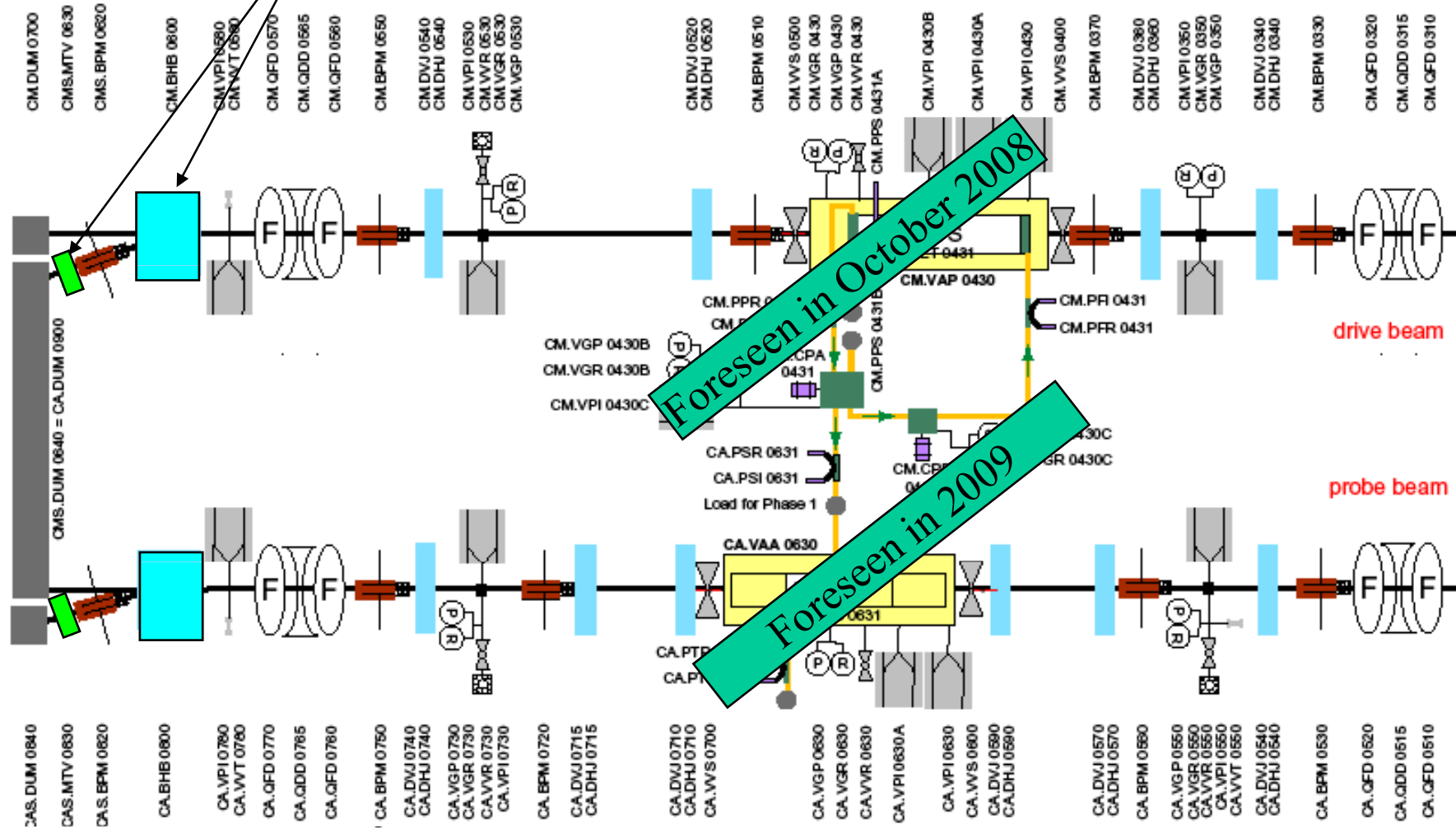


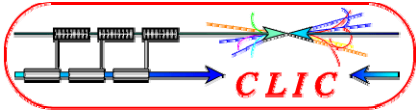
R. Ruber

End of June

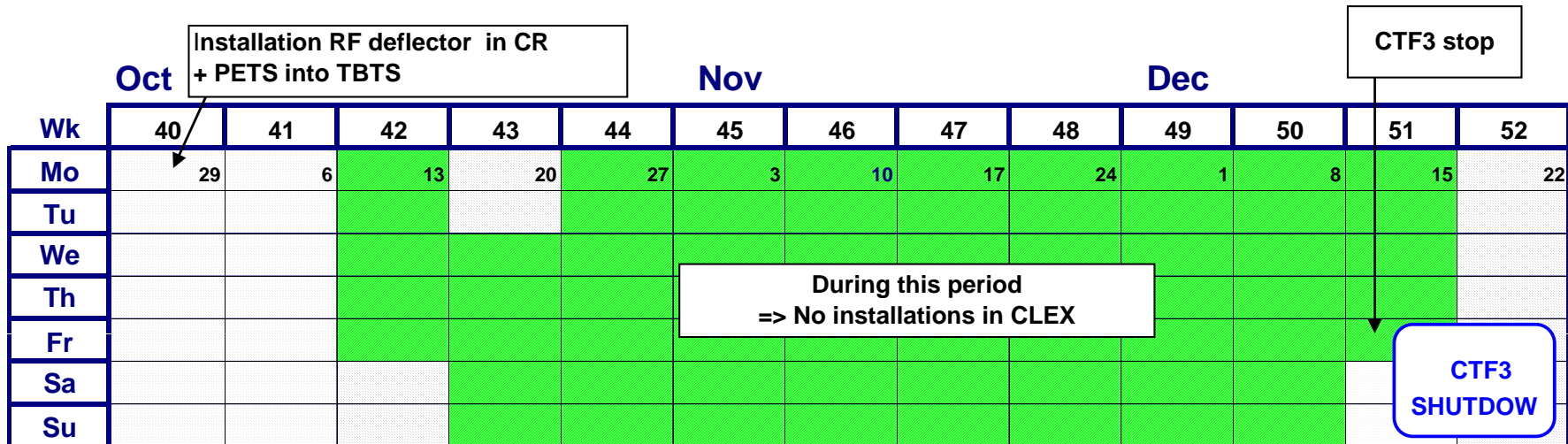
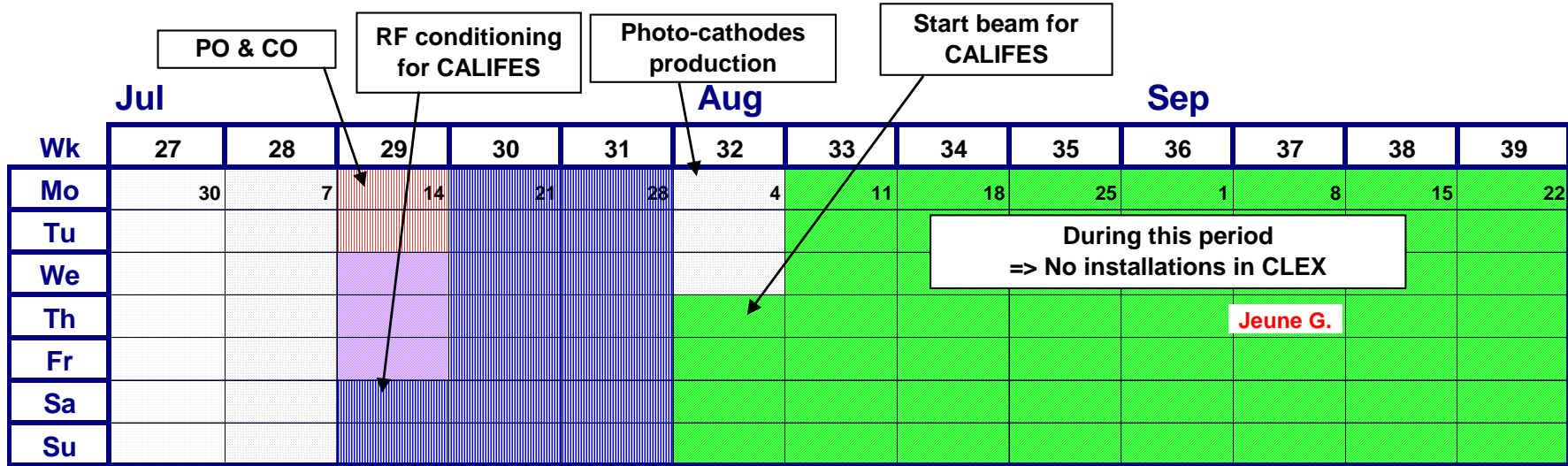
CERN EDMS Id. 894313
RR-2008/05/13

CTF3 Two-beam Test-Stand
Instrumentation






CTF3 - CLEX Schedule 2008




 CLEX closed with keys for Hardware tests

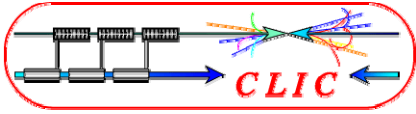
 CLEX under access control

 CLEX under access control for Laser tests



 CLEX with beam

 Machine open



Work into CTF2



Courtesy K. Elsener

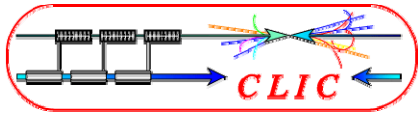
RF gun for PHIN



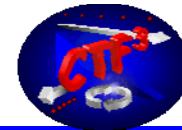
A single klystron MKS 14 shared with
RF reflectors into the Combiner Ring
and the RF deflector of CALIFES



MKS 14 klystron would be used to test the 2 new Al RF deflectors coming
from LNF before connecting wave guides to the PHIN RF gun ??



CTF3 - CTF2 Schedule 2008



	Jul				Aug				Sep				
Wk	27	28	29	30	31	32	33	34	35	36	37	38	39
Mo	30	7	14	21	28	4	11	18	25	1	8	15	22
Tu									Beam in DL + CR + CLEX				
We													
Th											Jeune G.		
Fr													
Sa							Beam in PETS						
Su													


	Oct			Nov				Dec					
Wk	40	41	42	43	44	45	46	47	48	49	50	51	52
Mo	29	6	13	20	27	3	10	17	24	1	8	15	22
Tu													
We	Beam for PHIN tests or 30GHz tests						Beam in PETS + DL + CR + CLEX						
Th													
Fr													
Sa													
Su													


CTF3 stop


CTF3 SHUTDOWN

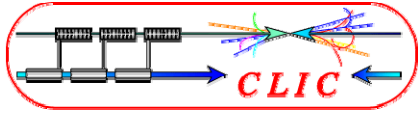
 CTF2 closed with keys for Hardware tests



 CTF2 open with access control

 CTF2 with 30 GHz or beam

 Machine open



Conclusion



- Installation of the Transfer Line TL2 will be finished and connected to the Combiner Ring for the 7 July 2008 without the Tail Clipper.
- Installation into CLEX (Phase 0) will be finished for the 14 July 2008
 - ❖ CALIFES RF gun ? Laser energy ?
 - ❖ Delay on correctors power supplies.
- Installation into CTF2 (for PHIN) will depend upon the CALIFES RF gun and RF wave guides.
 - ❖ Tests of RF deflectors ?
 - ❖ Tests with beam foreseen for October 2008.
- Holidays period !!!