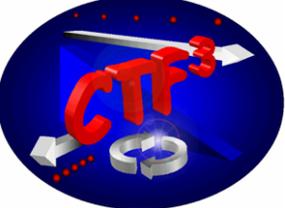


Planning & conclusion

L. Rinolfi

on behalf of CTF3 team

- A major activity: 30 GHz test stand
- A major installation: the Delay Loop
- Operation scenario in 2005



CTF3 General layout

Areas with foreseen activities in 2005

Injector

Drive Beam Linac
Fully loaded
acceleration

Delay Loop

Combiner Ring

CTF 2

10 m

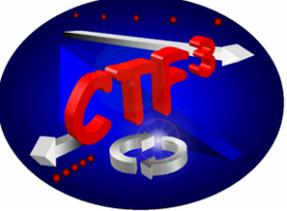
TL1

TL2

30 GHz Test Stand
and
RF Photo-injector
in CTF2

CLEX (CLIC Experimental Area)
Two Beam Test Stand
Probe Beam

Areas with foreseen activities after 2005



CTF3 Installations in 2005

Installed so far:

Thermionic injector 3 GHz

(LAL/SLAC/CERN)

Magnetic chicane

Linac (8 structures)

30 GHz PETS

CTF 2

10 m

Sub-harmonic
bunching system
1.5 GHz
(SLAC / CERN)

RF Photo-injector
PHIN
(LAL / RAL / CERN)

Bunch lengthening chicane

(INFN Frascati)

BLM (NW University)

6 new accelerating structures

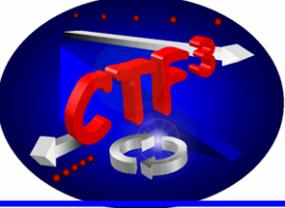
Improvement of
30 GHz test stand

To be installed:

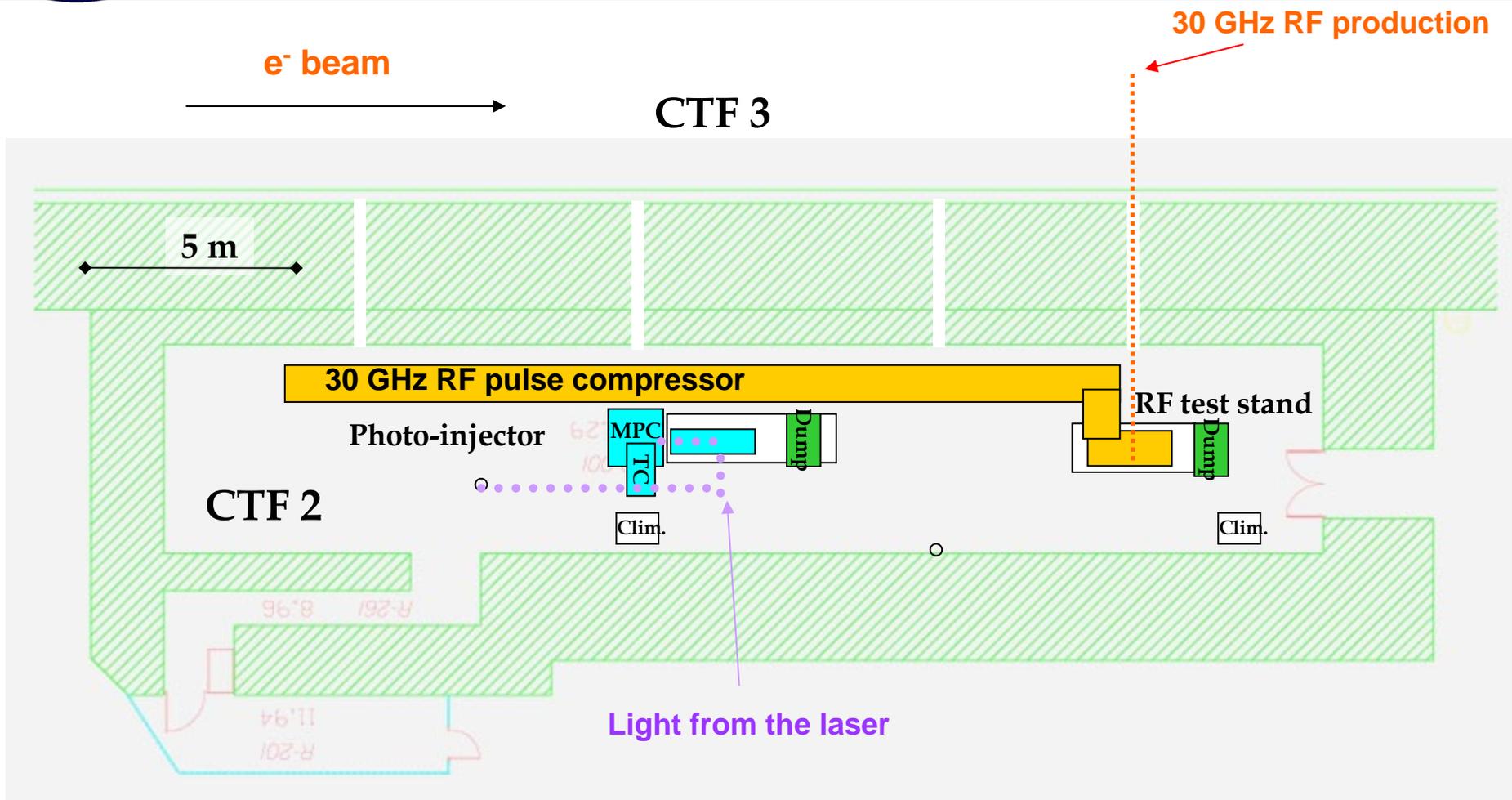
Delay Loop (INFN Frascati)

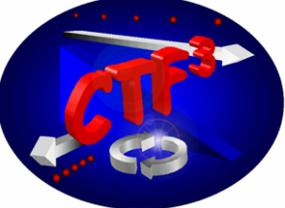
Phase monitor (Uppsala)

End of Drive Beam Linac (INFN Frascati)

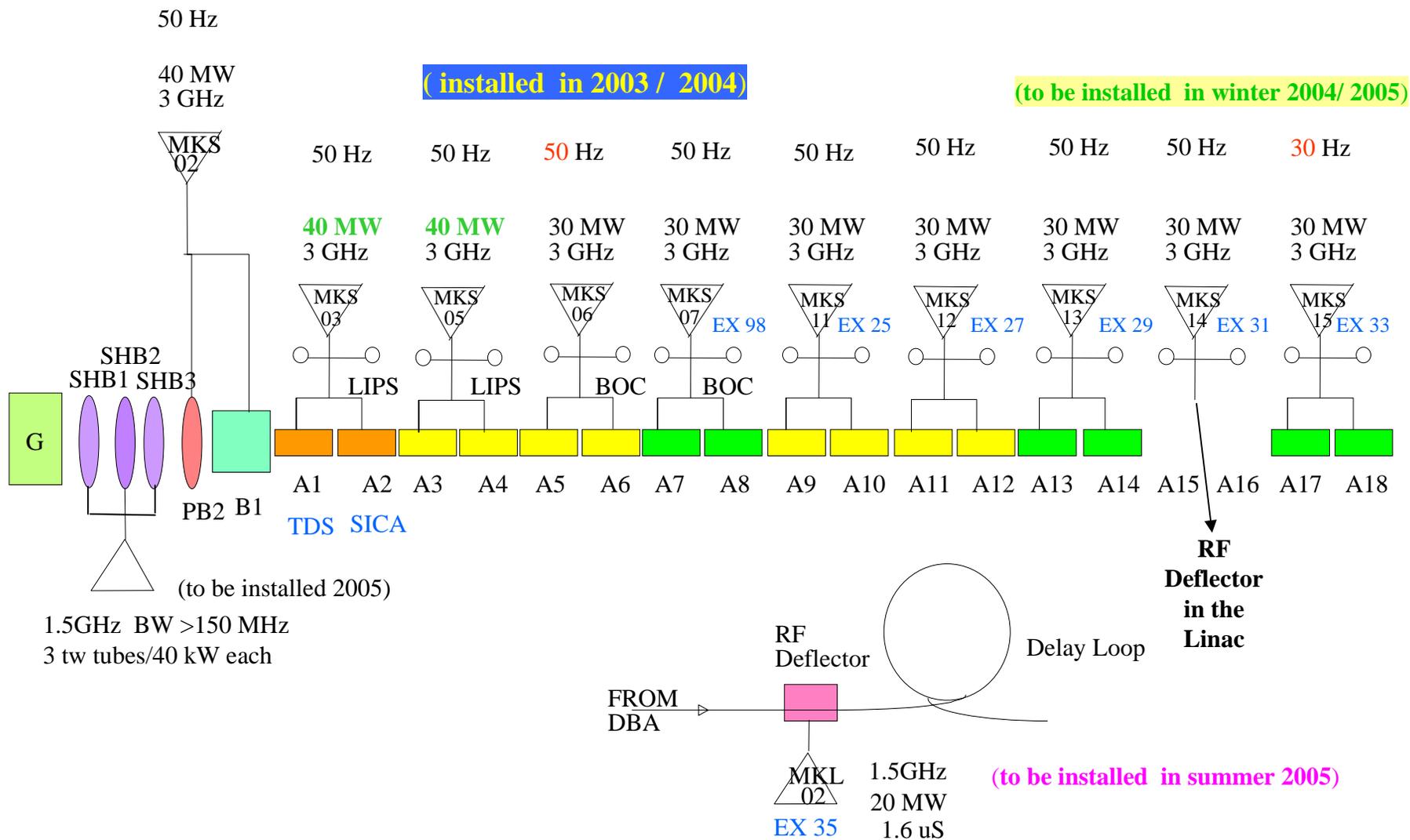


CTF2 layout up to the end of 2006

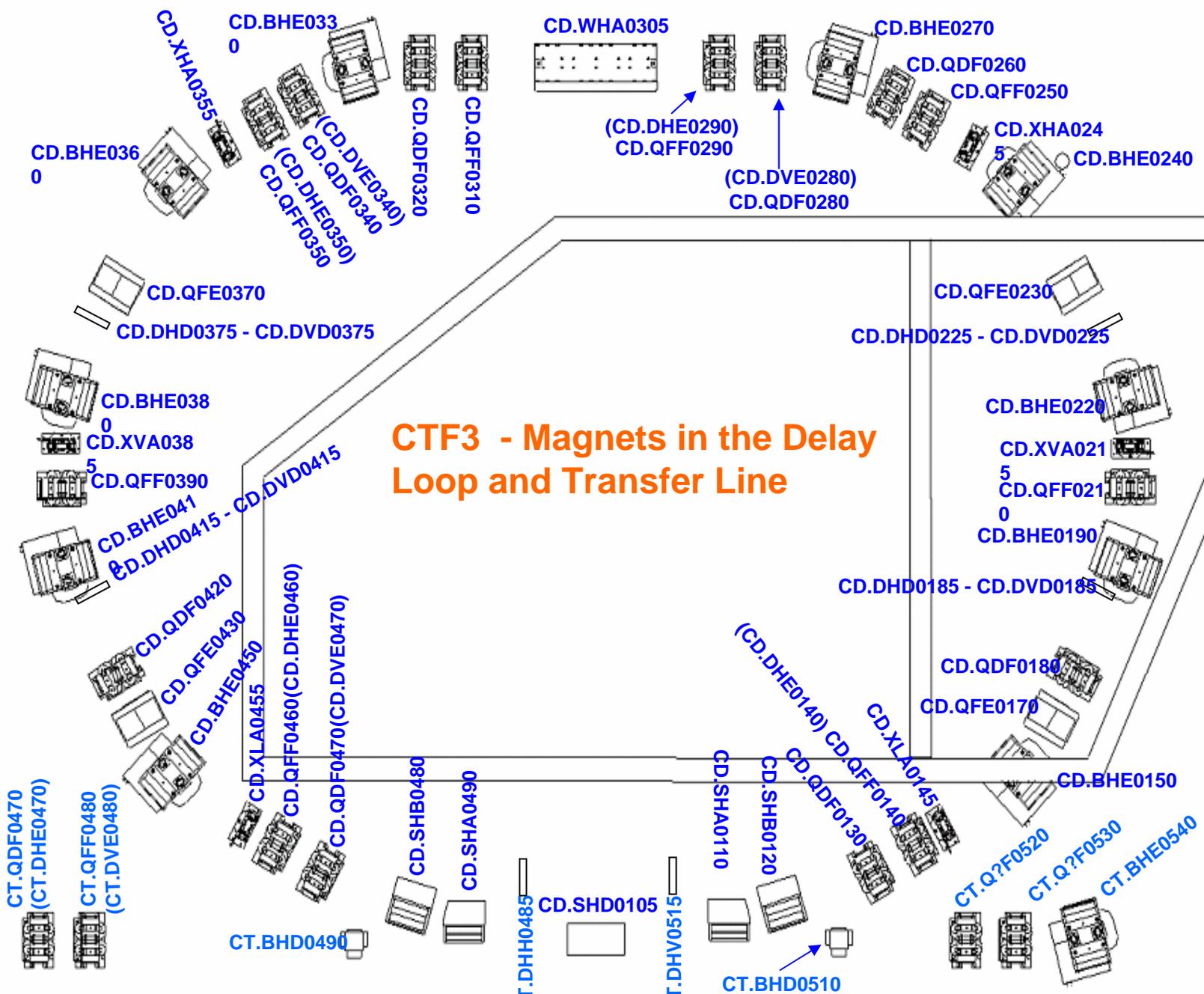




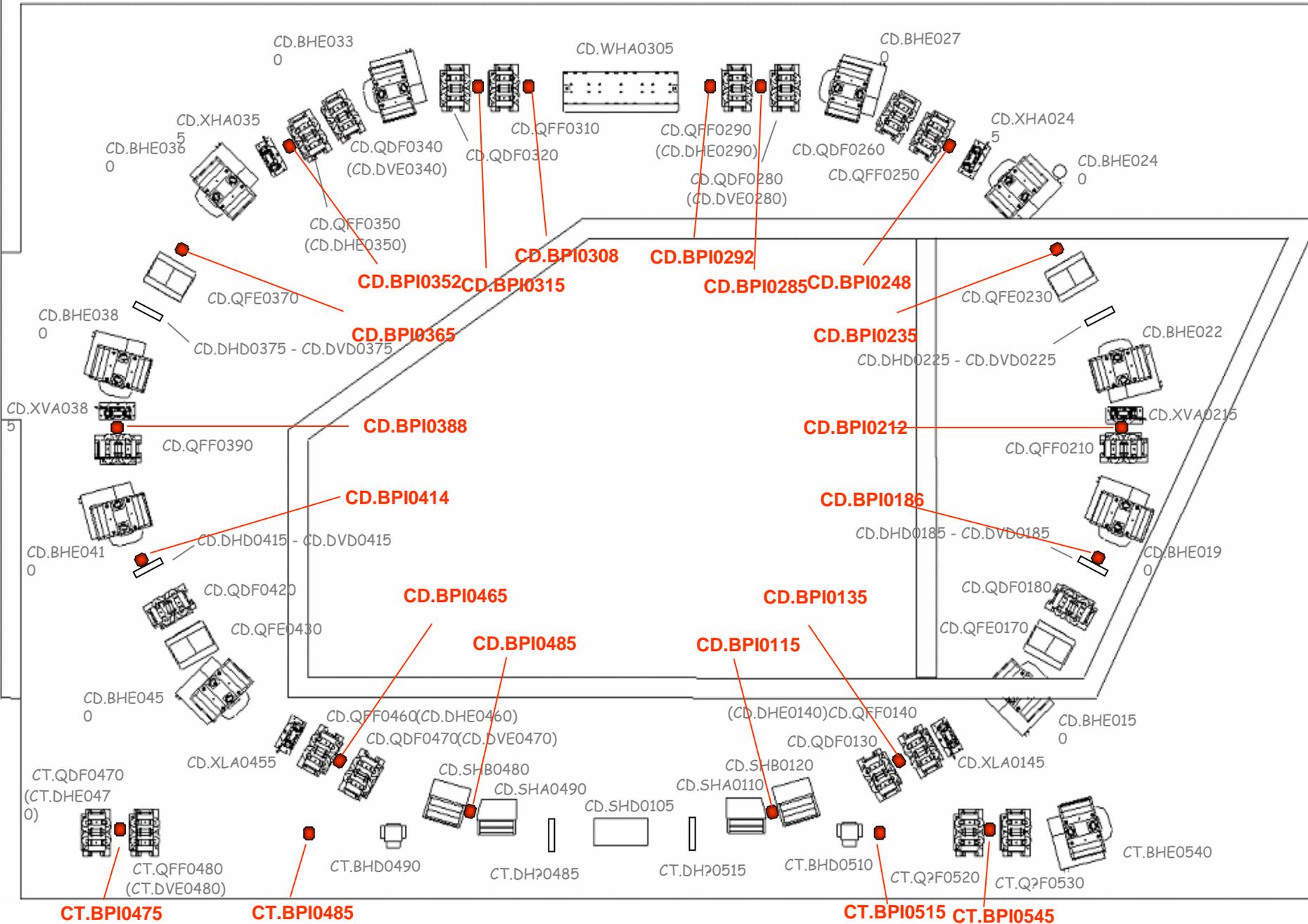
CTF3 RF power plant

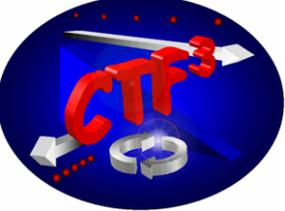


CTF3 - Magnets in the Delay Loop and Transfer Line



CTF3 - Beam Position Monitors in the Delay Loop and Transfer Line

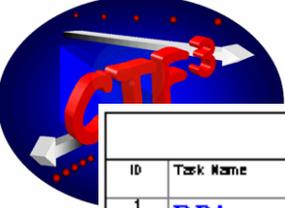




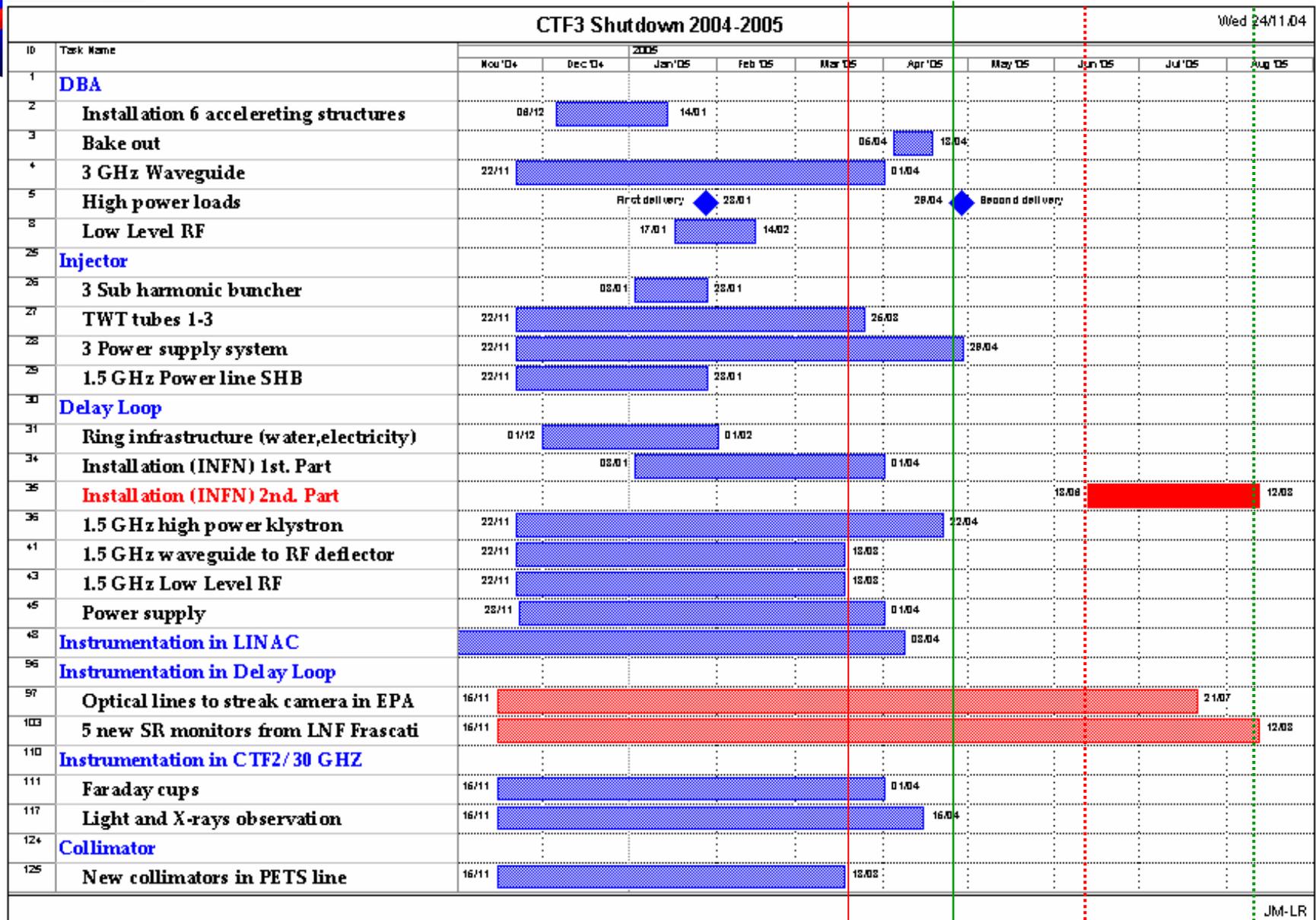
Constraints for the planning 2005

- **Beam used for the 30 GHz RF production (PETS line)**
 - ❖ Present installation is already OK but new components installed in CTF2
 - ❖ Check RF structure alignment and possible damage.

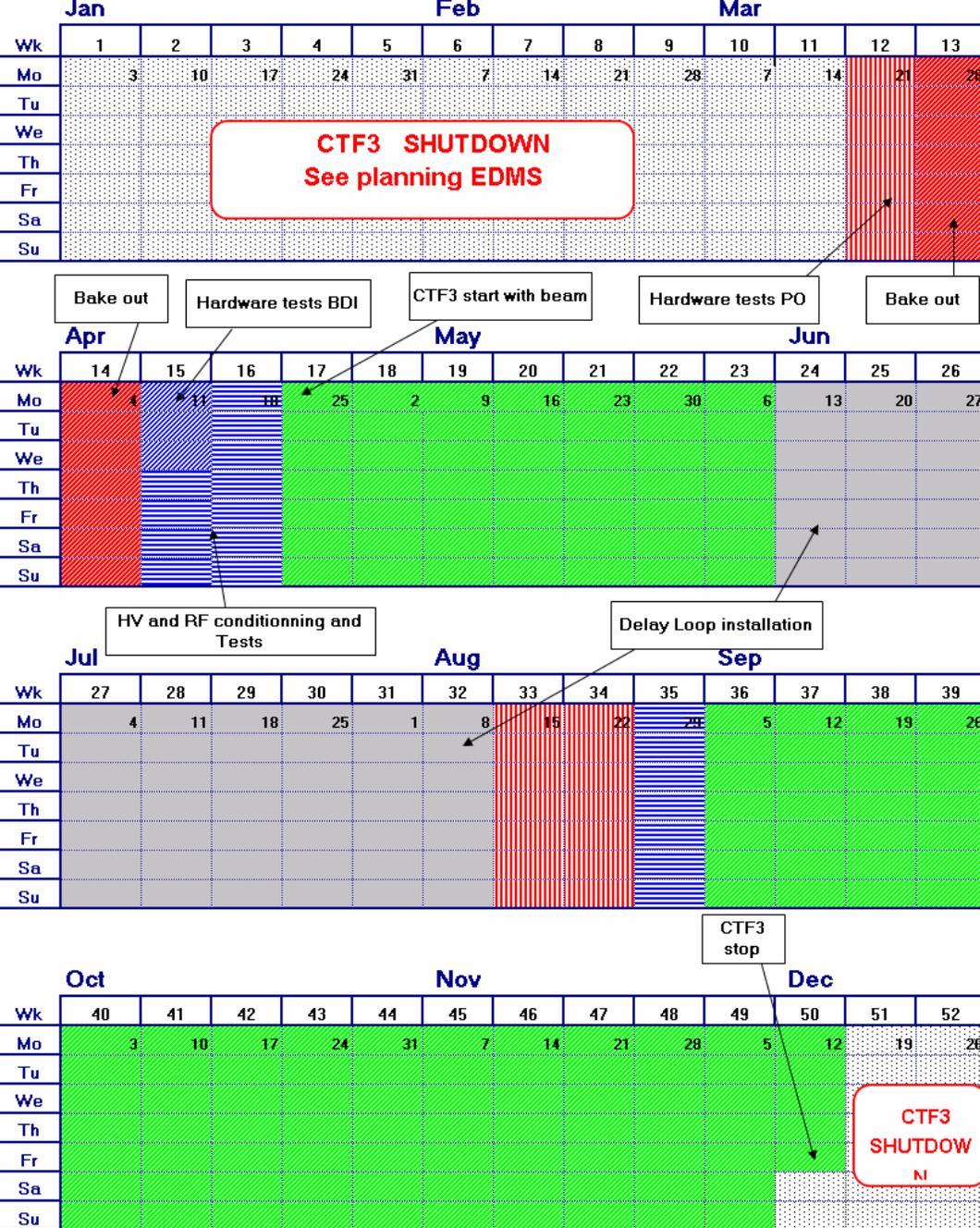
- **Beam used for the commissioning of the completed Drive Linac and Delay Loop**
 - ❖ Installation of the sub-harmonic bunchers but not necessary to be powered for the 30GHz in the PETS line and for the commissioning of the Linac.
 - ❖ Installation of the Transfer line between the end of Linac and the Delay Loop.
 - ❖ Installation of the Delay Loop components as much as possible in a first period of shut-down; then complete installation of the Delay Loop in a second period.
 - ❖ Constraints of space and installation order of components.



Planning of major activities for next run in 2005



CTF3 Schedule 2005



First run: April to June 2005:

➤ Mainly 30 GHz RF Production and Tests over 7 weeks.

Second run: September to December 2005:

➤ Commissioning of the Delay Loop and 30 GHz RF Production over 15 weeks.