





### **Goals & milestones 2008 run**

- 1st run (April - June)
  - Injector & Linac: establish stable & documented working point, diagnostics qualification, 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  $\beta$  function dependence of vertical instability, factor four combination with DL bypass ( $\geq 10$  A)
  - DL, TL1 & CR: factor 8 combination ( $\geq 15$  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



### **Beams**

- Nominal 3 GHz (4 A) for DL, CR commissioning
- Nominal 1.5 GHz (4 A) for DL, CR commissioning
- 1 A short pulse EuroTeV BPM
- Nominal 3 GHz variable length bypass DL/CR, commiss. TL2, TBTS (no PETS), TBL
- CALIFES beams
- $\Rightarrow$  ultimate beams in CLEX

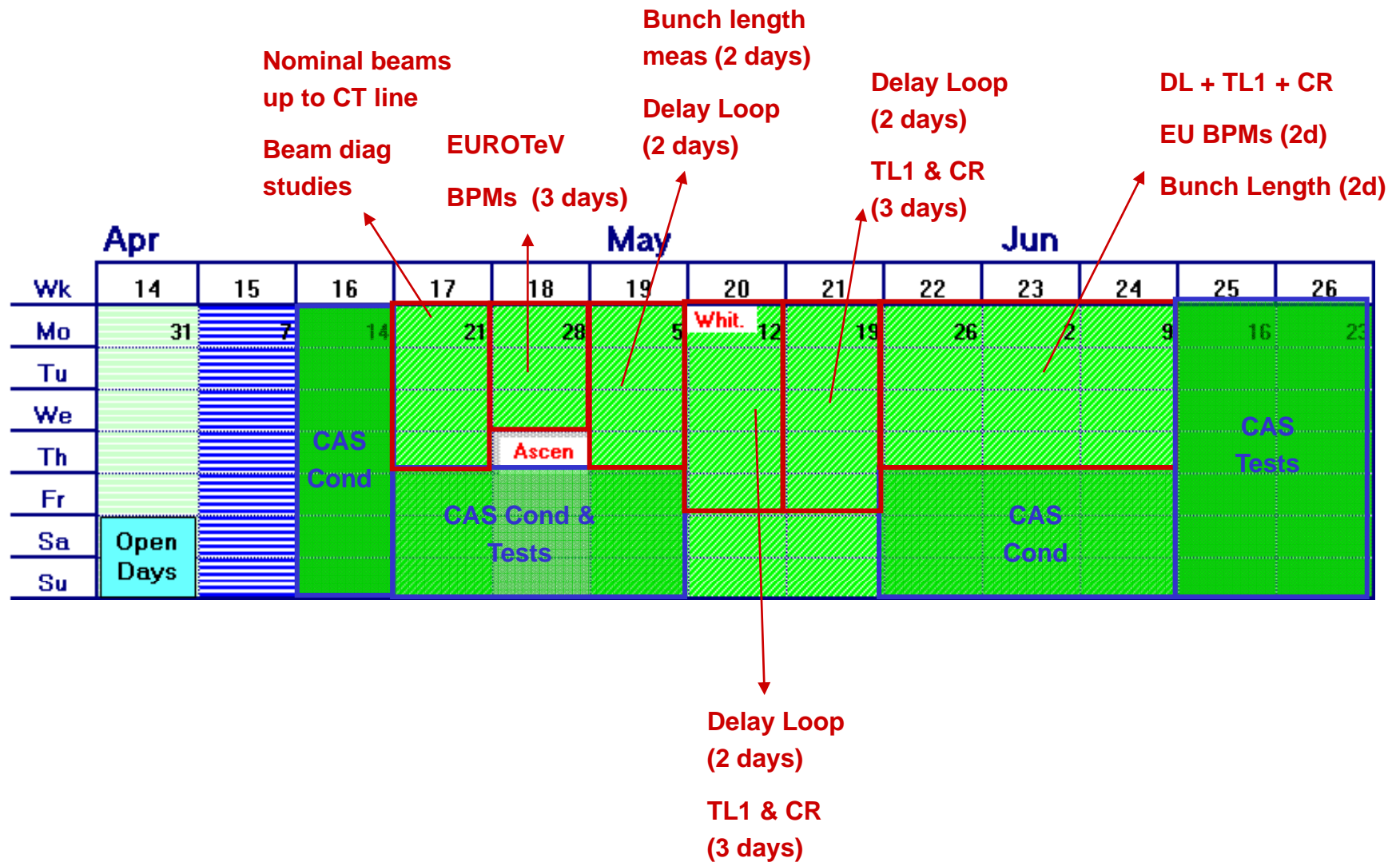


## **Organization**

- Two turns / day (8:00-14:00, 14:00-20:00)
- Daily meeting at 14:00
- One machine responsible per turn (RC, SD, FT, PS) + one “co-pilot” (SB, AD, HS, OM, EA...)
- Plus collaborators

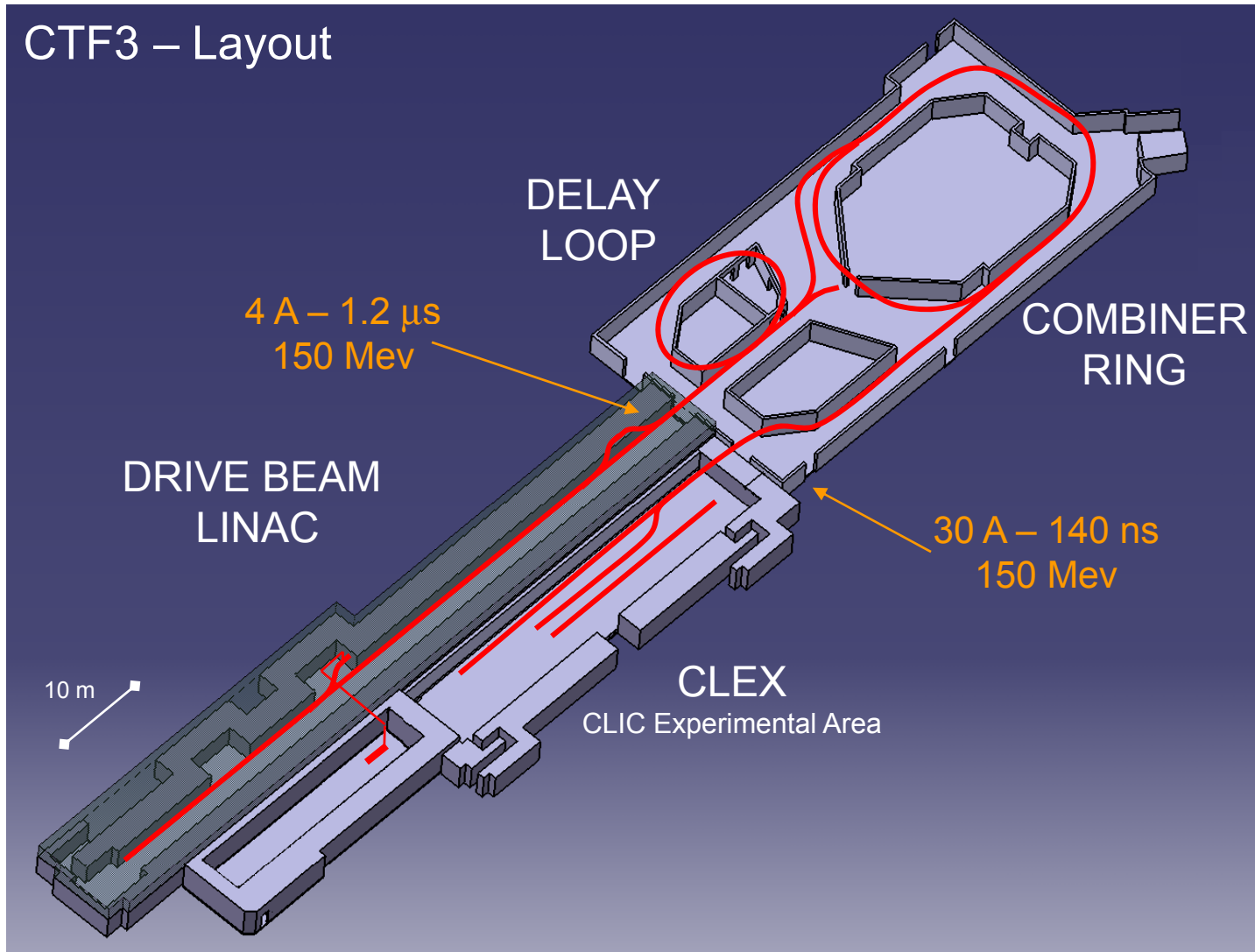


## Tentative Schedule – First run





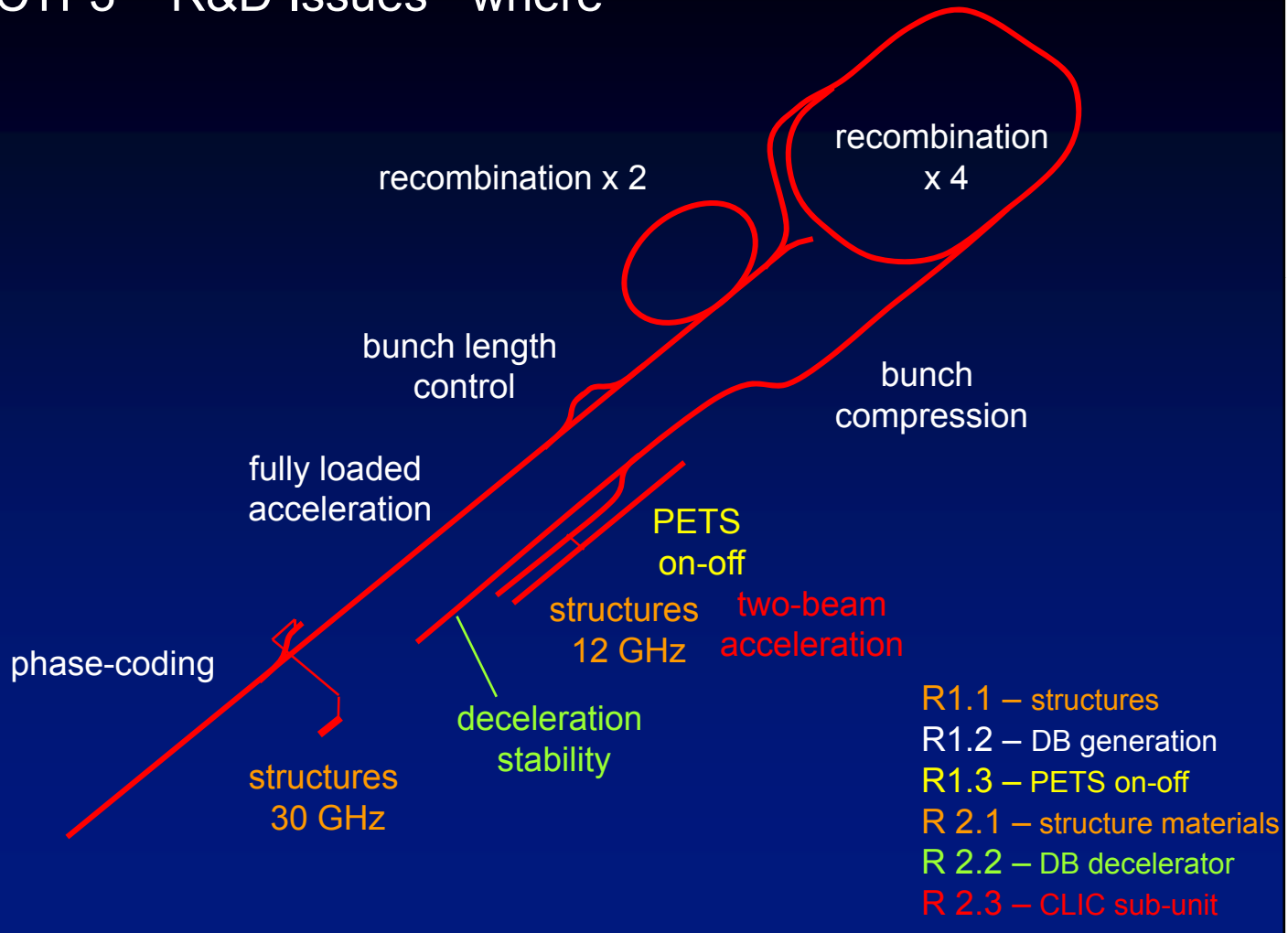
## CTF3 – Layout





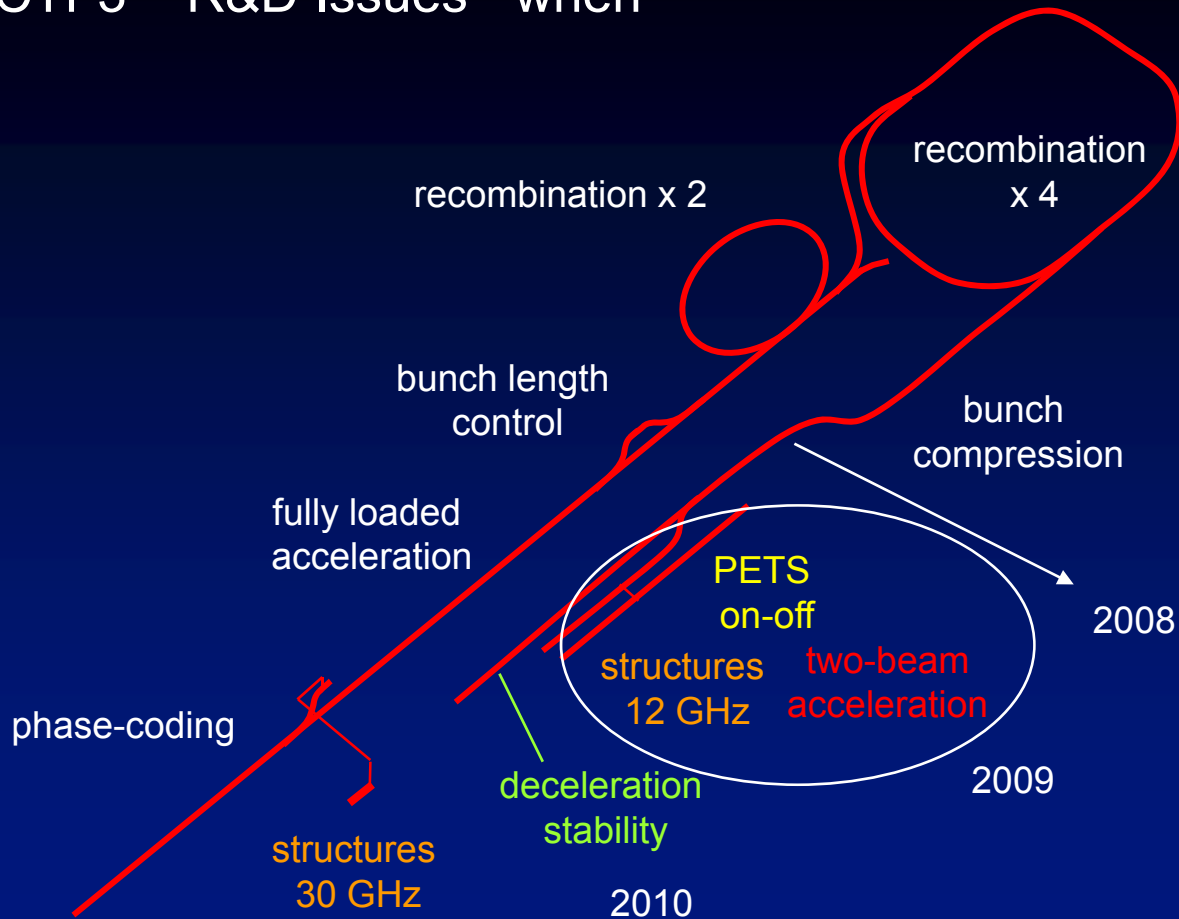


## CTF3 – R&D Issues - where

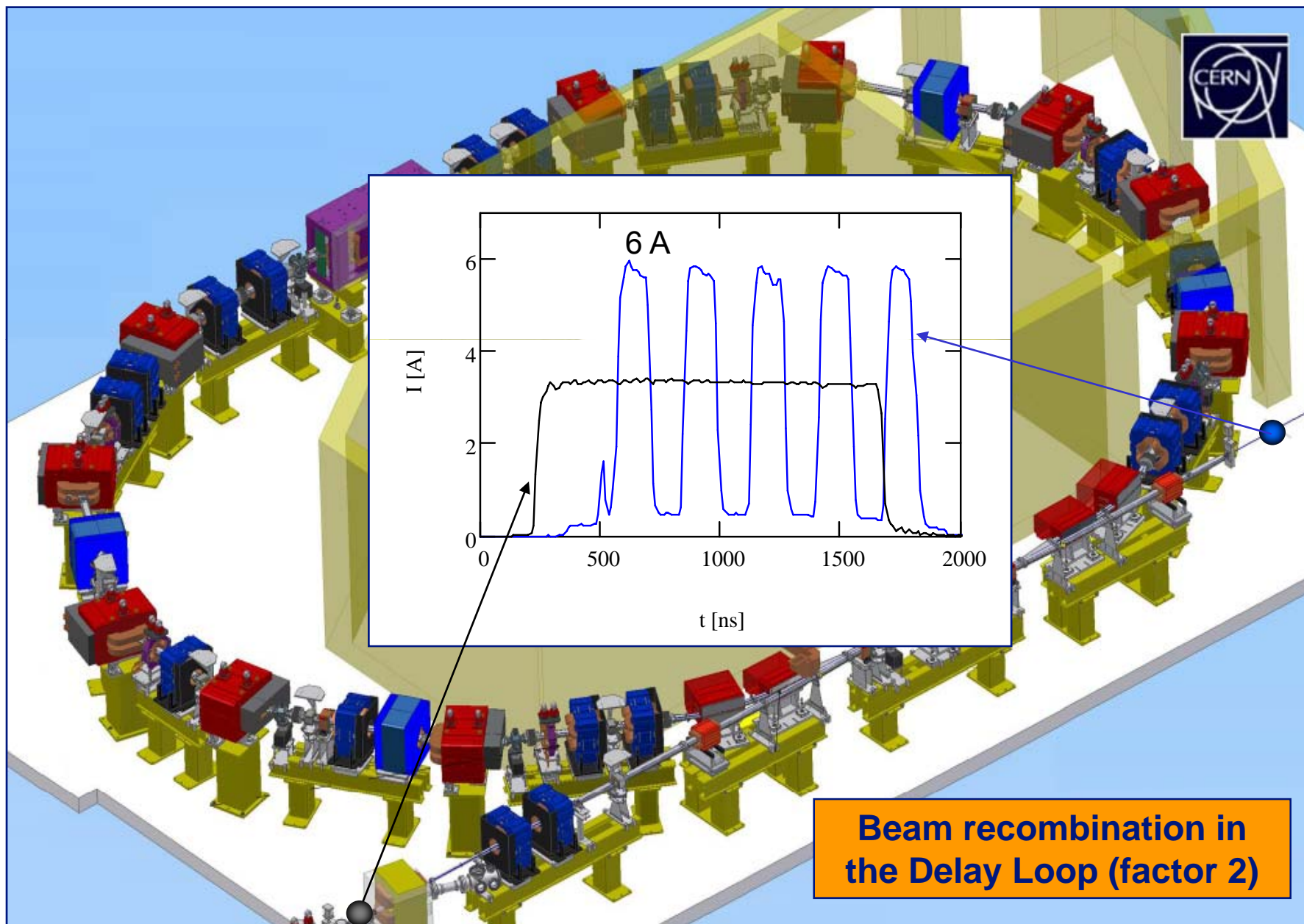




## CTF3 – R&D Issues - when





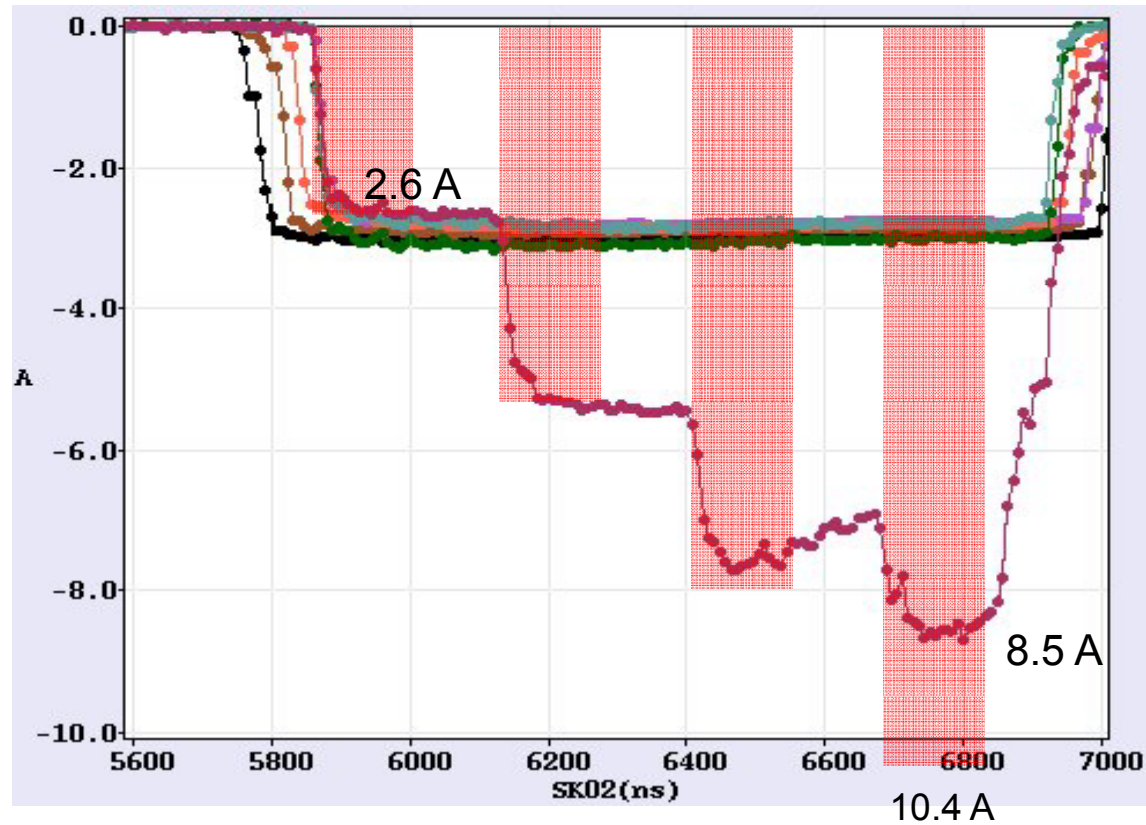


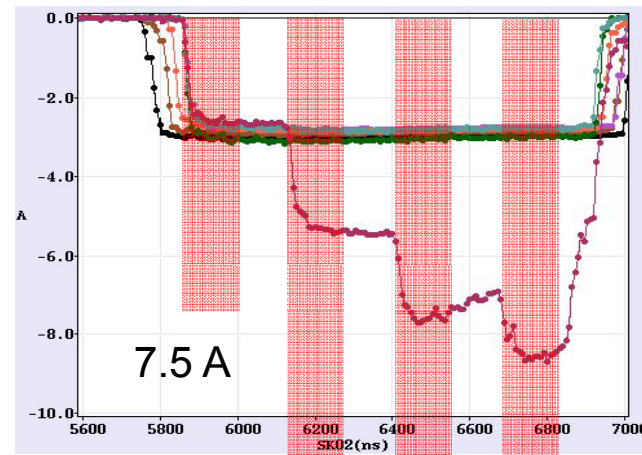


## Drive beam generation

Achieved recombination:

- Linac current lower than nominal
- DL bypassed (no holes, missing factor 2)
- Losses during recombination (**instability**...)





**What is missing ?**

But also...

30 A current !