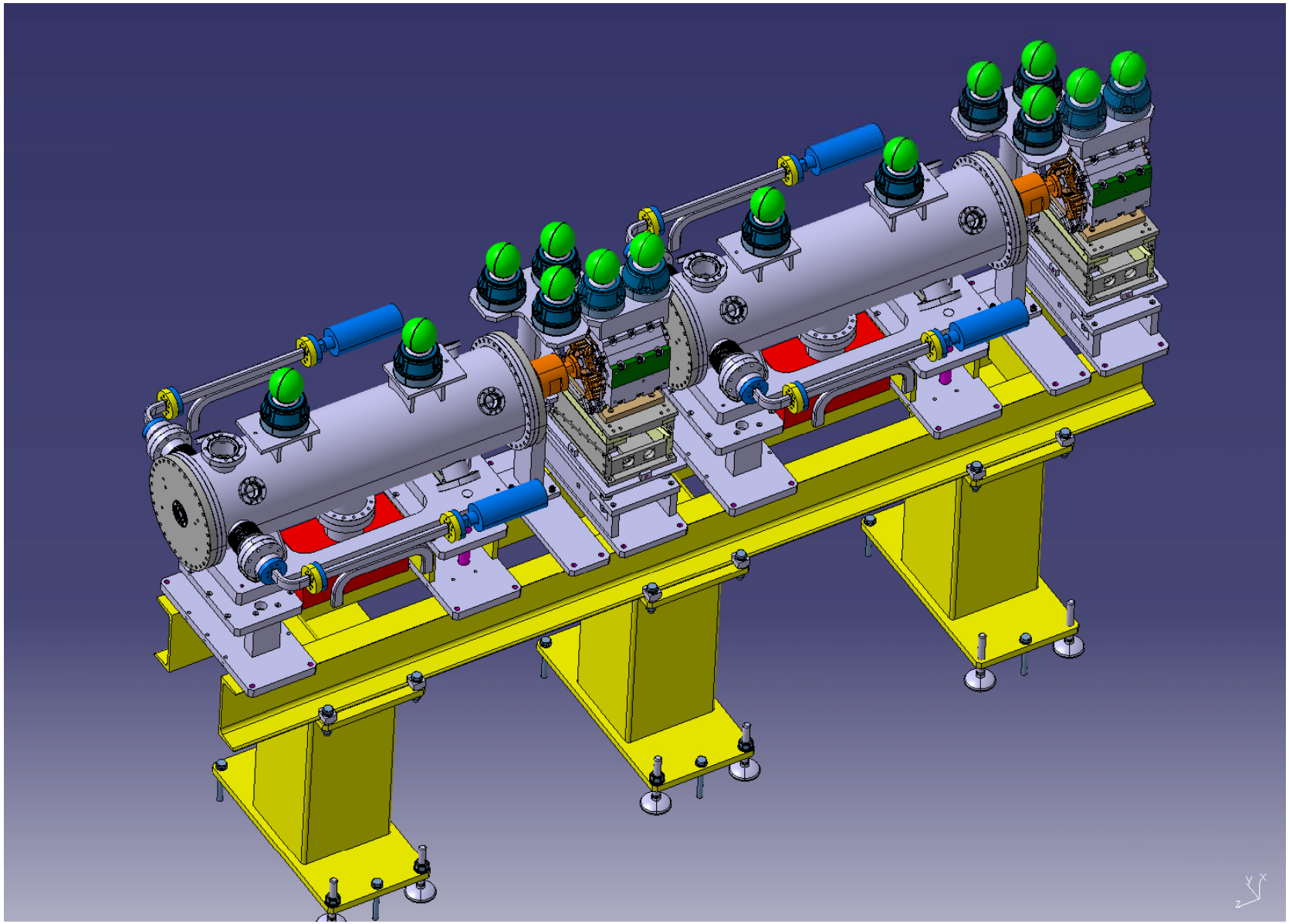
TBL update

- **Status of components**
- **Installations Plans for shutdown 2008/2009**
- **Schedule**

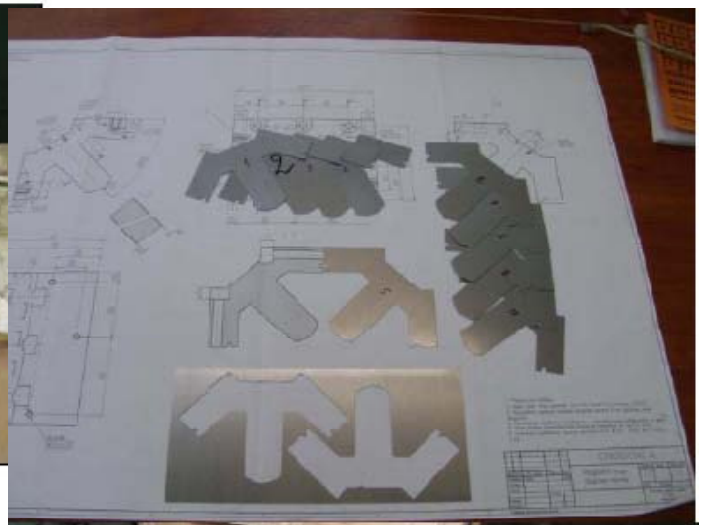
Status of the prototype components

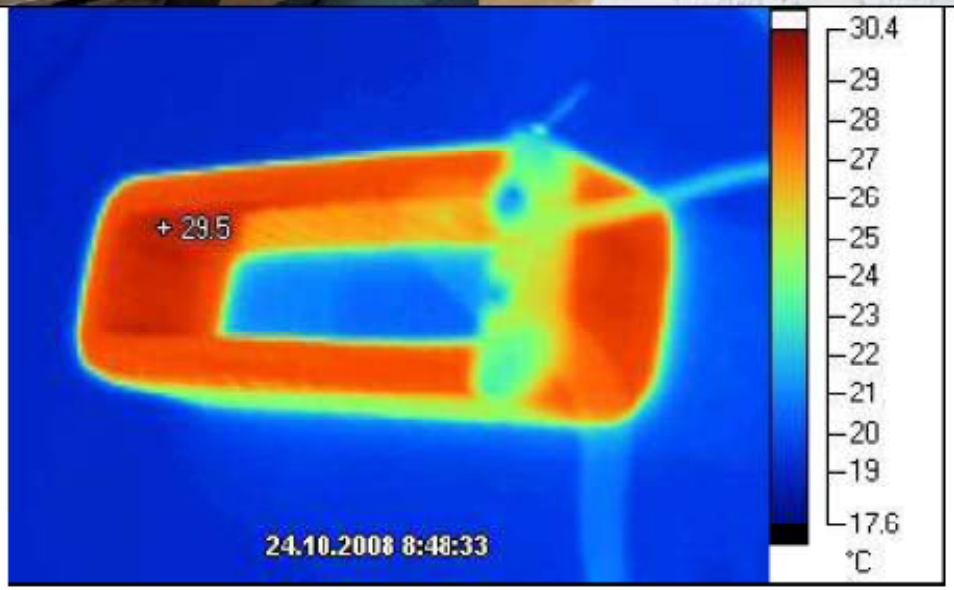
- PETS tank: under fabrication at CIEMAT (see Fernando's talk)
- BPM's: 2 prototypes finished, one installed under test with beam
  ringing problem of the electronics' chain under investigation
  Series: under fabrication (see Angeles talk)
- Quads: Prototypes under assembly at Russia and CERN
  acceptance test planned for December
  Series fabrication started
- Quad-Movers: Prototype installed and tested,
  Series under fabrication (see F.Toral)
- High power rf: directional couplers, loads prototypes
  under fabrication,
  Series: CEA white paper contribution for 8 sets
- Low Level rf: channels for prototypes testing available
- Other Beam diagnostics: defined and under fabrication

Tank integration



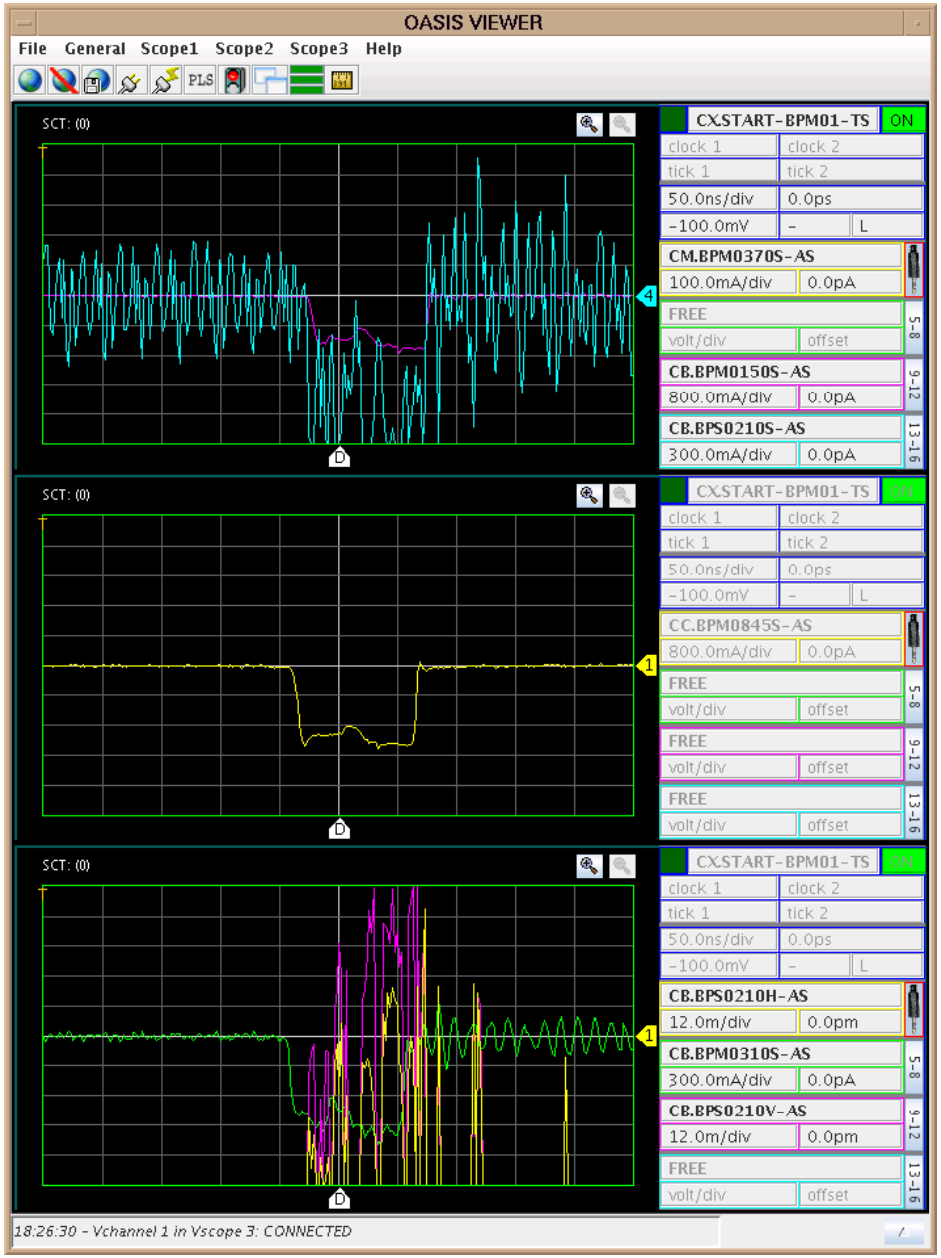
Quadrupole production at BINP





Series promised for End of January 2009, acceptance test December 2008

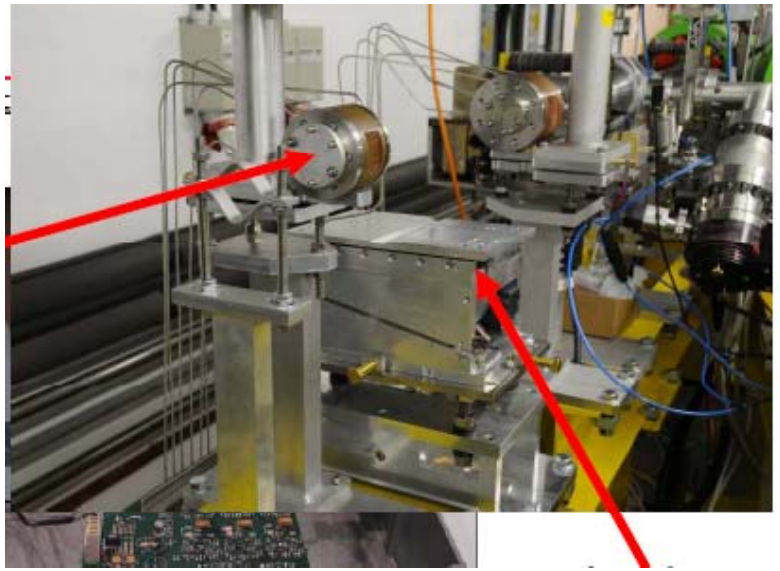
BPS under beam test



First beam with losses,

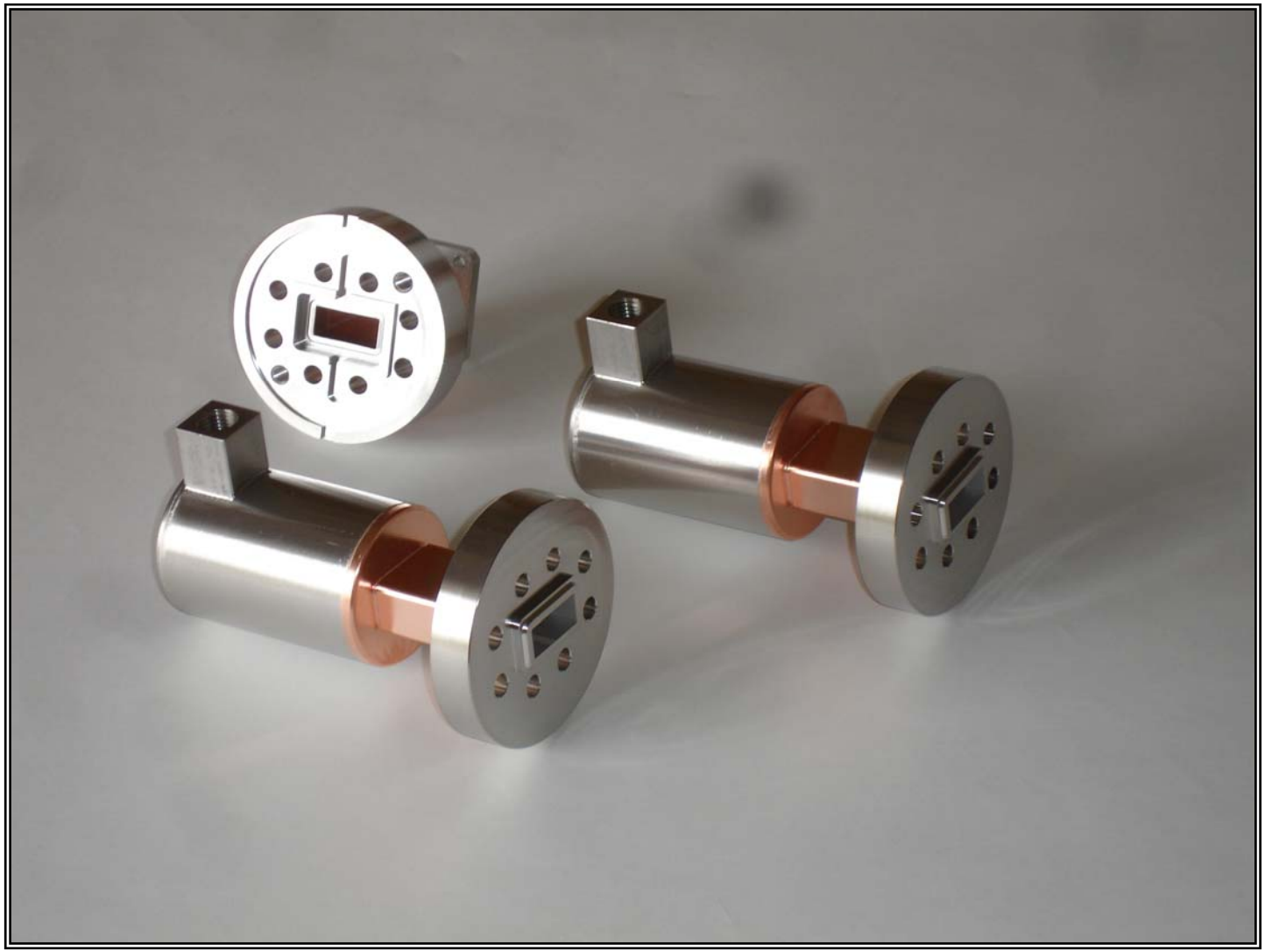
Ringing problem already detected with calibration pulses

Experts will meet at CERN next week to solve this one

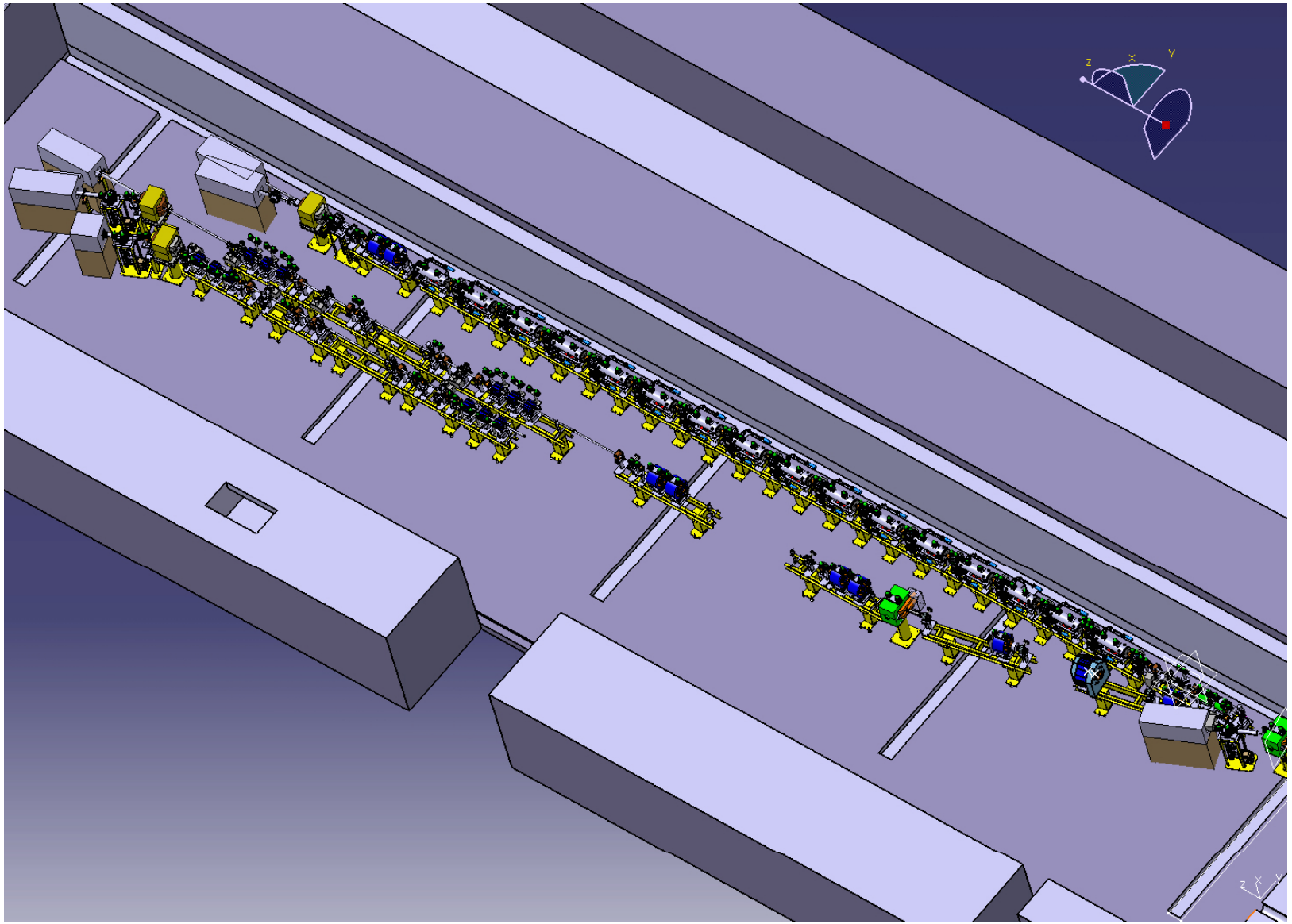


RF components prototypes, high power load at factory

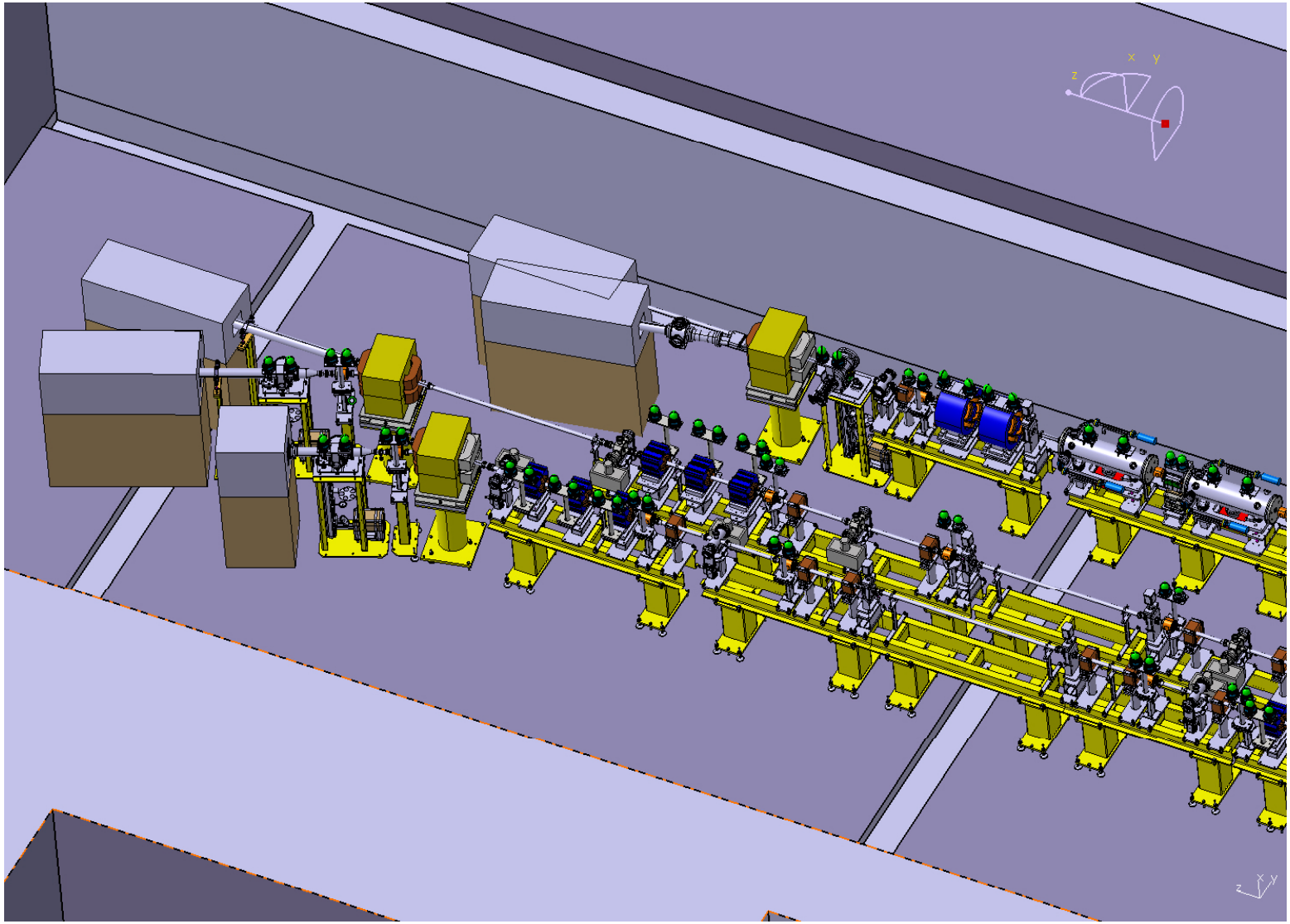
Water load with disk window, compact and inexpensive



TBL integration into CLEX



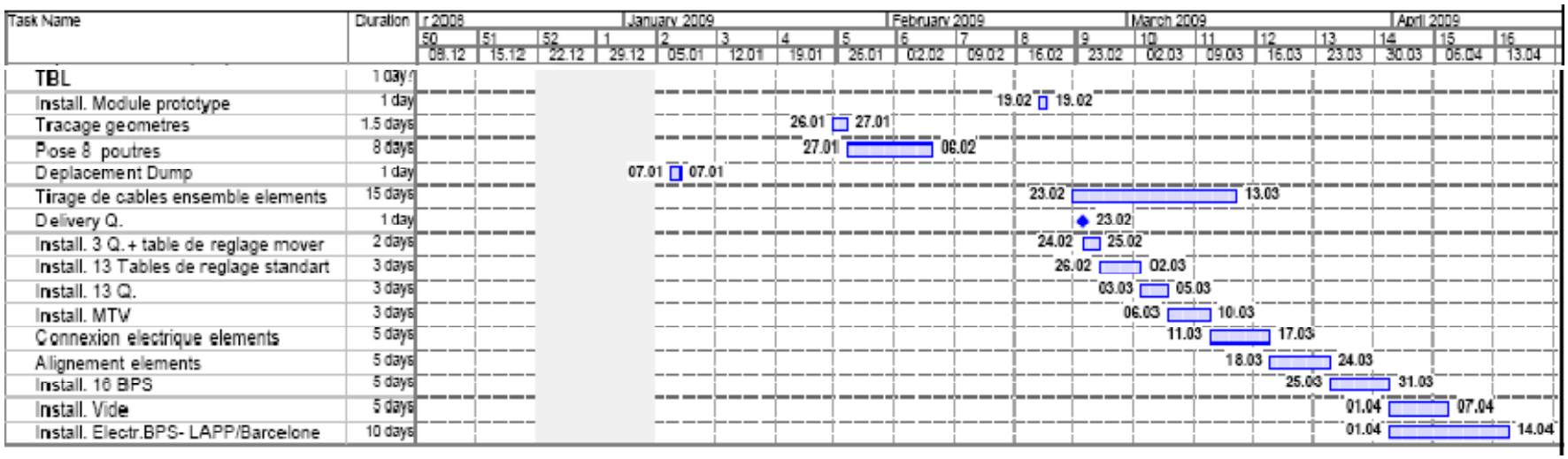
TBL diagnostic section



Installation-Schedule

- Install beam line as far as possible, limited by component delivery
  girders, supports, cabling, prototype PETS-tank
  if possible Quads, BPS, vacuum system and end of line spectrometer

- We will not have more then one PETS tank and only 3 movers



Conclusions

- TBL is happening now
- Delays a bit everywhere, components, planning, testing, fabrication, but still reasonable given the available resources and complexity
- Beam line installation planned for winter shutdown, second shutdown in summer 2009 to finish up and install more PETS if possible
- Critical to test PETS tank prototype, pacing item for future decisions !
- Testing rf components might become an issue
- Overall TBL goal with respect to CDR in 2010 should be soon reviewed