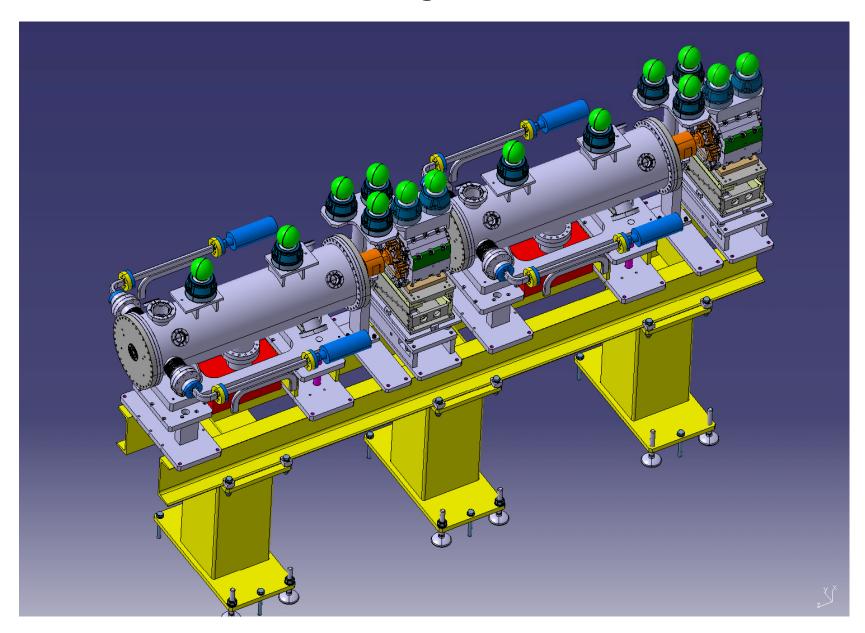
# TBL update

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

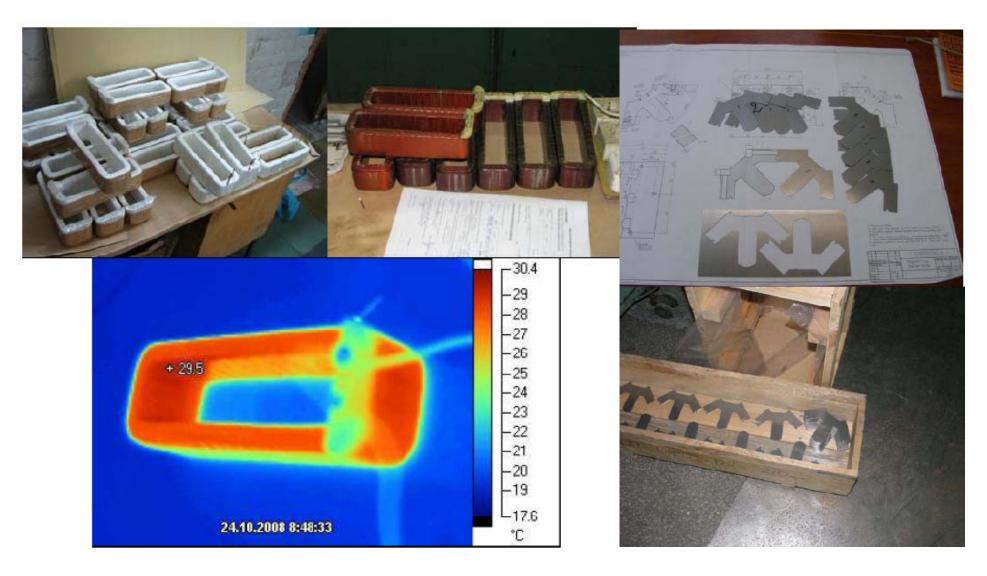
#### Status of the prototype components

- 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

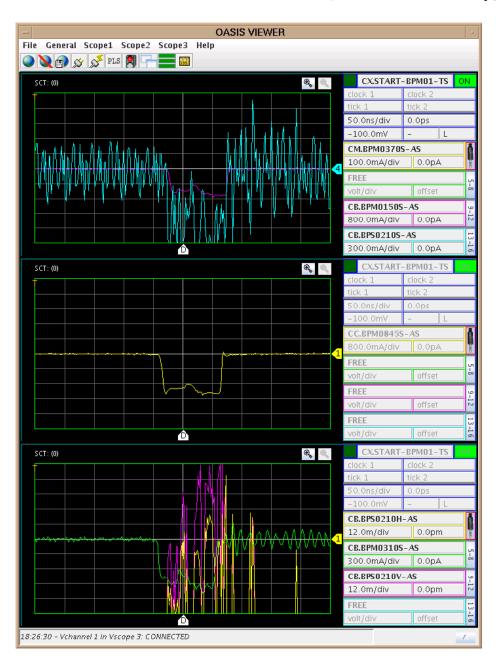


### Quadrupole production at BINP



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

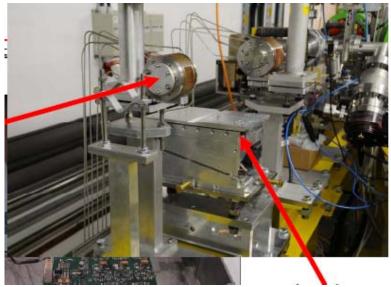
#### BPS under beam test



First beam with losses,

Ringing problem already detected with calibration pulses

Experts will meet at CERN next week to solve this one

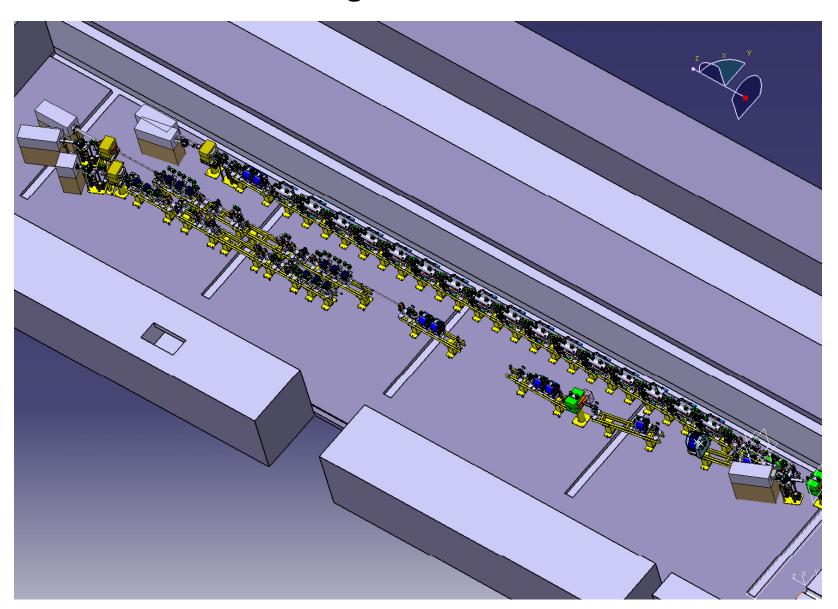


### RF components prototypes, high power load at factory

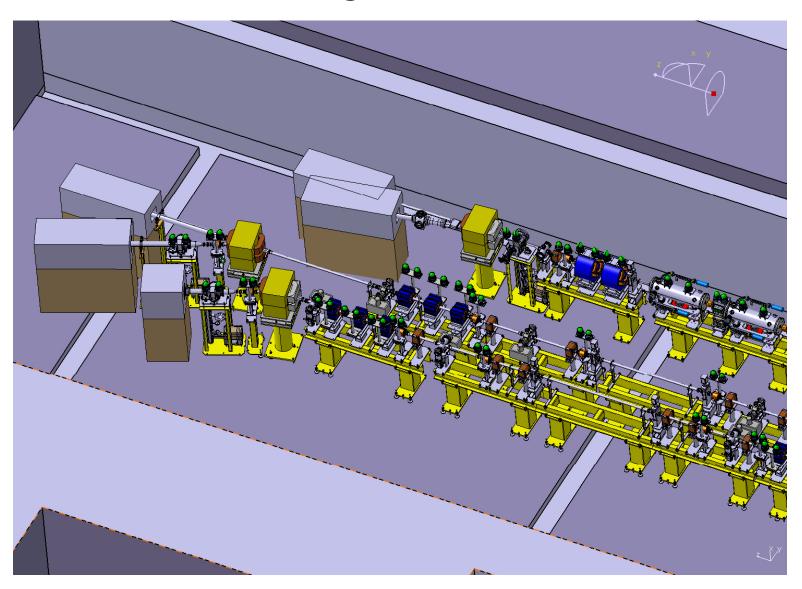
Water load with disk window, compact and inexpensive



## 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

Task Name	Duration	tion r 2008 January 2009							February 2009				March 2009				April 2009			
		50 08.12	51 15.12	52 22.12	29.12	05.01	3 12.01	19.01	5 26.01	02.02	7 09.02	8 16.02	9 23.02	10	11 09.03	12 16.03	13 23.03	14 30.03	15 06.04	16 13.04
TBL	1 <b>03</b> 9 :																			
Install. Module prototype	1 day								î	î	19.	02 👖 13	0.02			ii	i 1	i	i	
Tracage geometres	1.5 days		]					26.01	27.01	İ										
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Tirage de cables ensemble elements	15 days											23.02			1	3.03				
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Install. 13 Tables de reglage standart	3 days								† — — — -	†—	ii	26	.02	02.03						
Install. 13 Q.	3 days		ļ					ļ	ļ	ļ			03.03	05	03		[	i		
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Allignement elements	5 days		]						Ţ — — — -	Ţ <b></b>	[]		Ţ	]	18.0		24.03			
Install. 16 BPS	5 days								1	Ì						25.0	3	31.03		
Install. Vide	5 days	Г	]						ļ ————	ļ — ——		[- <b></b> -					01.0	4	07.04	
Install. Electr.BPS- LAPP/Barcelone	10 days		!						ļ ———	<u> </u>				1			01.0	4		14.04

#### 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