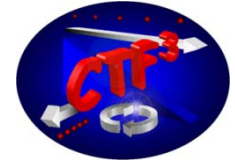
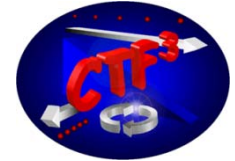


- CALIFES STATUS:
 - progress in RF conditioning
 - progress in Control/Command



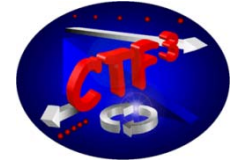
CERN RF team has work a lot during these last 4 last weeks, following the gun baking and the achievement of wave guide network.

- Modulators problems of EMC and voltage ripple has been solved with the assistance of PPT experts.
- The 3 LIL sections and the gun are now conditioned with a RF power of 62 MW - 1.5 μ s after the compression cavity (the process was slow due to a lot of breakdowns).
- To go further (92 MW requested) the pulse phase coding is being reviewed.
- The RF gun was found tuned shifted by 450 kHz vs. the last measurements (solved by reducing the water temperature from 35 $^{\circ}$ C to 27 $^{\circ}$ C). Why ? (baking ?).
- However the phase coding of the pulse impacts on the tuning of the gun that has to be retuned accordingly (iterative process).



Some problems remain that do not prevent the first attend to launch a beam in CALIFES (now foreseen for the 1st of December 08), but the accurate commissioning can not be performed yet.

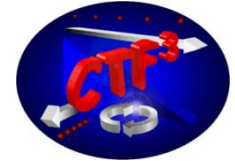
- Modulator pulses amplitude are slowly fluctuating (power supply to be serviced by PPT).
- Gun power attenuator is not yet controlled (manufacturer expert is to come)
- The 3rd LIL section shows a strong reflected power (possibly the load is not completely water filled ?).
- BOC and gun phase shifter stepping motors are to be serviced (on going).
- Power phase shifter (for the compression section) is still waited for the end of January 09 for installation during shutdown.



C/C from the control room are progressing thanks to a strong cooperation between CERN and CEA experts. However measurements can already be performed directly in the CLEX gallery.

- MTV are working but the digitized pictures are not yet available in the Control room (but raw video screen can be observed).
- BPM program are installed and reading via Oasis possible. Correct trigger signal is to be prepared.
- Charge monitor is operational and waiting for data acquisition by the ADC board for reading via Sampler application.
- A control terminal is to be installed in the laser room to help in laser tuning.

Next weeks work



- Monday 24/11 and Tuesday 25/11 CLEX open for Cs_2Te cathode preparation (provided RF conditioning achieved with magnetic field in the gun and in the two first LIL sections)
- Wednesday 25/11 access reserved for laser tuning.
- Then ready for first CALIFES beam up to the 15th of December.

PHIN successful start make us reasonably optimistic