

# LHC RF Meeting

16<sup>th</sup> June 2006

**Participants:** Luca Arnaudon, Thomas Bohl, Olivier Brunner, Edmond Ciapala, Wolfgang Höfle, Pierre Maesen, Eric Montesinos, Elena Shaposhnikova, Joachim Tückmantel.

(Note: [Corrected write up of last meeting 9<sup>th</sup> June](#))

## 1. ACS Modules and SM18 (Pierre/Eric)

🔧 **Module 5: Heat running:** Cavity B was run for > 12 hours at 230 kW, without polarization. Cavity A has had four attempts without polarization; each time with a large vacuum burst after 4-6 hrs running, requiring re-conditioning to re-establish the power level. With the polarization switched on running was possible for long periods (~ 12 hours) but these were interrupted by interventions in the bunker to resolve overheating problems, both of the waveguides around the coupler (insufficient air flow) and of the outer tube in the cryostat (insufficient He gas flow). The tests will continue and conclusions drawn for any modifications needed for installation in the tunnel.

🔧 **Palonnier:** The lifting frame (palonnier) for the modules was tested again after modifications to the lifting points to ensure that the module remains horizontal during lifting. ([See photo](#))

2. **Coupler assembly:** We will wait for new polarization seals (expected next week)

## 3. ADT (Eric/Wolfgang)

🔧 **Dubna:** Eric & Wolfgang will visit in July to discuss amplifier production

🔧 **B867 tests:** Power tests will continue soon. It is also planned to do first tests on the feedback electronics.

🔧 **Vacuum flanges:** Special flanges are needed for the kickers, to allow some rotation. Olivier will check if this has been properly taken up by the vacuum group. **(Action: Olivier)**

## 4. APW (Thomas)

🔧 **Series production:** APW 2 is now with the vacuum group (for test and bake-out). We will have vacuum support from up to three 'new' persons for the various activities.

## 5. UX45 installation progress (Olivier)

🔧 **Planning:** The recent LSS planning meeting has given one week further delay for vacuum work in RA47 and one month delay in RA43. Installation deadlines for equipment in RUX45 are beginning to mid-August. We may be in a critical for fitting the tuner bellows on two of the SC modules (delivery time for bellows, workshop modifications of parts and mounting – to follow up)

🔧 **Cabling:** Cabling in the UX45 trenches on the left side (RB44) has been completed. The cover plates are back in place. The other side will be done next week. HV cables from the US to the bunkers are being done now.

🔧 **Earthing:** Earth bars and straps are being connected on the bottom of the racks.

🔧 **RUX45 waveguides:** Waveguide installation is nearing the end.

🔧 **Transport to and in UX45:** Transport speed is limited to 10 km per hour. Accelerometers are fitted to equipment during transport. The SC module suspended from its palonnier has just enough space to pass over the bunker into RUX45. Klystron lifting gear has been tested in H112. Transport means for ADT kickers and APW monitors has to be decided, as has lifting of ADTs into place.

🔧 **Ventilation:** Work will continue next week.

🔧 **Floor preparation:** S. Grillot will organize floor painting, in UX 45 and RUX45. The latter is planned for the first week of August.

**Next Meeting:** Friday 23<sup>rd</sup> June at 08:45 in the JBA room.

E. Ciapala, 19<sup>th</sup> June 2006.