# LHC RF Meeting 17<sup>th</sup> December 2003

**Present:** Luca Arnaudon, Andy Butterworth, Edmond Ciapala, Wolfgang Höfle, Trevor Linnecar, Volker Rödel.

**Excused/Absent:** Philippe Baudrenghien, Olivier Brunner, Thomas Bohl, Elena Chapochnikova, Roberto Losito, Eric Montesinos, Joachim Tückmantel, Daniel Valuch.

## The meeting was devoted to the UX45 layout.

## Agreed points:

- 1) We will move the LLRF racks to the klystron side of UX45, to an area just behind the level of the TX45 tunnel opening.
  - The actual loop delays for each klystron must be checked. The maximum MUST be less than 600 nS. (Action: Philippe)

  - We should contact the design team for the platform on the cryo side to see if any unnecessary expenditure can be avoided. (Action Volker, Ed)

## Points to be studied:

- 1) Design of a Faraday cage Look at commercial 'of-the-shelf' solutions, e.g. Siemens and possibly review the number of racks per ring for LLRF/common timing and the layout of crates in racks.

  (Action: Philippe)
  - 2) Moving of two HV bunkers to opposite side of UX45:

*Advantages*: symmetry, additional radiation protection for other equipment racks which would then be arranged behind bunkers nearer PZ45, shorter HV cables for the two moved bunkers?

**Disadvantages**: routing of HV cables past TX 45 opening, additional water piping, additional earthing. (Action: Olivier, Volker)

#### AoB.

- The confirmed level for the power applied to all four couplers during the recent tests on module 3 is 300 kW.
- Module 3 was successfully leak tested after the power tests.

#### **Next Meeting:**

7<sup>th</sup> January 2004 at 09:00 in 864-1-C01

E. Ciapala, 17<sup>th</sup> December 2003.