19.08.2011

Racks Coordination Meeting

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During the presentation following questions rise up

1. 2/3 rack groups: are they needed? Alternative 3/3 cabinets. Is it possible? Pros and Contras.
2. There are still some doubts that all "motors" are considered or on the contrary twice included.

The present state needs to be checked:

One group of 4 accelerator modules is considered

Only XTL tunnel is under discussion now!

WP05

It was required 8 Rack Units (RU) pro Module: 4 RU Motorsteuerung + 4 RU Moover Coupler

Totally we need 4x8 RU pro ACC Module Group

These are placed now in the cabinets left and right from the middle of the ACC group

WP07

It was required 4 RU pro Accelerator Module

Totally we need 4 control units (each 4 RU) pro ACC Module Group

These are placed now in the LLRF cabinets left and right from the middle of the ACC group

WP06

It was required 6 RU pro Module and ONLY in ACC Module Group 2 (L1 - first 4 modules)

Totally we need 4 control units pro ACC Module Group

2 Units are placed now in the cabinets at 117 m and 2 units in the cabinets at 166 m

Can the stepper motor drivers been combined in one rack (which)?

1. Preferable to locate the water distribution upstream of klystron. Is it possible?
2. Preferable to locate the LLRF between 1&2 and 3&4 module to guaranty the same cables length.
3. Are there any power constrains: 700W connection power and 8kW maximum power dissipation
4. Cable routing of motor driver is unclear
5. Preferably 3-Rack unit rather than 2-rack unit because of the lower costs (pro rack!). Costs difference must be checked
6. To be clarified if racks can be located near the Schiebemove
7. Next meeting will be in two weeks from now. Participation of all concerned WPs required.

The questions must be clarified until the next meeting.

Overworked XTL Racks layout must be represented on the meeting