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Minutes of the

12th Meeting of the COMPASS Technical Board

January, 13, 1999

MWPCs and MF1 (O. Denissov)
The positions of the 8 MWPC-A chambers types were discussed. The chambers have 3 wire planes, one vertical and ± 10 degree inclined planes. A special chamber (MWPCA*) is equipped with a horizontal wire plane as well. The proposal to replace the two MWPC-B chambers presently foreseen downstream of RICH1 by the MWPCA* chamber was accepted. The track recontruction through the RICH will benefit from the larger active area of the A-type chambers.

The design of the Muon Wall 1 is now attacked by Vladimir Anosov, JINR, who is visiting CERN for 2 month and maybe for longer. Several parameters have still to be fixed: thickness of iron wall, hole size, and detector size.

HCAL1 (I. Savin, S. Bravar)
The final design of the HCAL1 foresees 20×28 calorimeter modules of 150×150 mm^2. Several scenarios for the hole size were discussed, the largest of $sbeing 10 \times 6$ blocks and the smallest 8×4 blocks. The larger hole would require in addition quarter size modules (75×75 mm^2) to reduce it to a symmetric hole of 9×5 modules. 30 new mini modules would be needed each costing about 2000 CHF. These mini modules are difficult to include into the cluster summing for the trigger.

After a discussion it was decided to only use full size modules and to leave a hole of 1200×600 mm^2. The geometrical acceptance in the non-dispersive plane, as defined by the SM2 apperture, intersects HCAL1 about at the middle of the module length along the beam. (According to a more detailed design presented after the meeting the actual size of the hole will be is 1224×612 mm^2.)

Saving 12 modules at each corner of HCAL1 brings the total number of modules down to 480.

HCAL2 (V. Poliakov, S. Bravar)
The size of the hole in HCAL2 for the muon program was fixed to 2×2 blocks. The total size of HCAL2 is 20×10 modules of 200×200 mm^2 corresponding to an area of 4 m (horizontal) times 2 m (vertical). The hole will be situated asummetrically in rows 5 and 6 and columns 8 and 9 on the Jura side.

Polarised target (N. Horikawa) The schedule of the rewiring of the solenoid at Oxford was presented. At present the shipment to CERN is foreseen for March 12, 1999. (This has been modified after the meeting to April 12.)