OPEN SESSION

1. Status report from NA48/1: A. Ceccucci
2. Status report from NA48/2: V. Kekelidze
3. Status report from AD4/ACE: M. Holzscheiter

CLOSED SESSION


Apologies: R. Batley, H. Bialkowska, C. Détraz, S. Kabana, S. Kox

1. MINUTES OF THE LAST MEETING
   The Minutes of the 64th meeting were approved without amendments.

2. REPORT FROM THE 165TH MEETING OF THE RESEARCH BOARD
   J. Dainton reported from the 165th meeting of the Research Board.
   The Research Board received the SPSC report on its 64th meeting. The Research Board endorsed the recommendations on the 25 ns running and noted the consequences of the losses in beam time at the SPS due to various breakdowns.

3. STATUS OF THE ACCELERATORS
   J-P. Riunaud reported on the status of the accelerators. At the PS an earth fault on a dipole gives some reason for concern. The dipole is part of the beam line to the East Hall but located inside the PS tunnel. At the SPS some more vacuum problems have occurred. During the proton running, extraction tests for LHC have been performed successfully. In other tests for LHC with beams with 75 ns bunch interval at nominal intensity, no sign of the production of an electron cloud was detected. These developments are important for
LHC operation. Graphs of the efficiency and intensity during the last part of the proton run demonstrate that the accelerator performance has been satisfactory.

The heavy ion Indium run is progressing well. At the beginning the source had to be changed more often than anticipated, but a change in the procedure has lead to better stability. The intensity exceeds user requirements.

The AD operated well. Some difficulties were encountered in steering the beams for AD4/ACE. Improvements in the beam line are foreseen.

J.P. Delahaye pointed out that the consolidation program for the accelerators is financed at a level of 8 MCHF/year for the next two years. Work in these two years is limited by the available manpower. From 2006 onwards the support drops to 3 MCHF/year in the current financial planning. Past experience shows, however, that about 8 MCHF/year are necessary for adequate preventive maintenance.

The SPSC took note.

4. STATUS OF THE EXPERIMENTAL AREAS

L. Gatignon summarized the state of operations to the end of the proton run. The beams operated with reasonable efficiency. He pointed out that a repair of the dipole in the line to the East Hall would stop all accelerators. The Indium run started ahead of time and is going well.

L. Gatignon reported on the status of installation work concerned with the beam dump and the decay tube for the CNGS beam.

5. STATUS OF THE EXPERIMENTS AND THE SCHEDULE

M. Hauschild reviewed the status of the experiments. At the AD a new magnet for ATRAP caused some disturbance to other users because of its stray field. A means of limiting this interference has been found and its implementation has been agreed. At the PS the DIRAC experiment has finished data taking. At the SPS, COMPASS and NA48/2 have suffered substantial losses of beam time this year. Otherwise their data taking has been successful. NA60 had some problems at the beginning of the Indium run with the pixel detector. These problems have now been overcome. The experiment is collecting good data.

M. Hauschild presented the draft schedule for 2004. There will be between 24 and 28 weeks of beam available for the different experiments using the PS complex. At the SPS 24 weeks are scheduled, out of which two weeks will be used for 25 ns running.

6. STATUS REPORT OF NA48/1

The Referee stressed the importance of the first observations and measurements from NA48/1 on the branching ratios for $K^0_S \rightarrow \pi^+\pi^-$, $K^0_S \rightarrow \mu^+\mu^-$ and $K^0_S \rightarrow \gamma\gamma$. These results allow a deeper understanding of CP violation and permit calculations of the $K^0_L \rightarrow \pi^+\pi^-\pi^0$ decay. The rate problems in hyperon decay have been understood in term of trigger performance and new results are emerging. The Referee pointed out that the Collaboration is very active and efficient with many students involved in the analysis. At least two teams work on each analysis under very high quality standards.

The Committee congratulated the Collaboration to the high quality of the results, especially the branching ratios for $K^0_S \rightarrow \pi^+\pi^-l^+l^-$ ($l = \text{lepton}$), and looks forward to results on hyperon decays.
7. **STATUS REPORT OF NA48/2**

The Referee recalled the aim of the experiment and the new set-up of beam and experiment. The experiment suffered from the SPS problems at the beginning of the running period this year and could collect only about 40% of the expected data. Very rapid analysis of a subset of the data has demonstrated that the detector performance and systematic errors are well under control. Several areas of further improvements in the data taking have been already identified and elaborated. Further running in 2004 should give sufficient data for the completion of the experiment.

The Committee **congratulated** the Collaboration to the successful run with a new beam and upgraded experiment and the high quality of the collected data. The Committee **recommended** further 10.5 weeks of proton running for NA48/2 in 2004.

8. **STATUS OF NA60**

The Referee summarized the running of NA60 so far. The Indium run is proceeding well with good quality data being collected. The complete pixel detector performs very well. Plenty of data, even at low dimuon masses, will be available. The proton run in 2004 is crucial for the comparison with the ion data. The Committee **took note** of the good progress of the Indium run and **recommended** to allocate 11.5 weeks of proton beam time to NA60 in 2004.

9. **STATUS OF AD4/ACE**

The Referee reported on the preparatory measurements on the beam parameters and dosimetry and the first irradiations with antiprotons by AD4/ACE. The Collaboration has developed an efficient treatment and analysis of the biological samples. The Collaboration plans an experiment at Aarhus for comparison with protons under similar conditions to those at the AD. The Collaboration would like to continue measurements in 2004 with an improved beam.

The Committee **congratulated** the Collaboration on its achievements in 2003. The Committee **will give further consideration** to the 2004 beam request after further consultation with the referees, and after having received results from the Aarhus experiment. It is also anticipated that, if approval of its request is forthcoming, the MoU between the Collaboration and CERN will then be signed.

10. **“COGNE’ MEETING**

The Chairman proposed, and the Committee agreed to, the period Wednesday, 22 September to Tuesday, 28 September 2004 inclusive for the “Cogne style” meeting, subject to availability of accommodation.

11. **A.O.B.**

11.1 Dates of the SPSC meetings in 2004:

- 3 February
- 27 April
- 6 July
- 26 October
11.2 Minutes
Following a proposal by the Secretary, it was agreed that, henceforth, the draft minutes, which are presented to the Research Board, will be available through the SPSC web pages. They will be clearly marked “draft”. Subsequent changes, which may be necessary when approval is sought at the beginning of the next SPSC meeting, will then be included. The final minutes will be then posted alongside the draft minutes as a record of the Committee’s proceedings.

11.3 Leaving members
The Chairman warmly thanked S.Kabana, F.Bobisut and V.Kekelidze, who are leaving the Committee, for their work and dedication to the goals of the Committee.

12. DOCUMENTS RECEIVED:
- Minutes of the 64th meeting on 26 August 2003 (SPSC 2003-027/SPSC-064).
- NA48/1 Status Report to the SPSC (SPSC 2003-034/M708).
- The on-going Indium 2003 run of the NA60 experiment (SPSC 2003-035/M709).
- Beam time request for the 2004 proton run (SPSC 2003-036/M710).

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