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To/A: The members of the SPSC

From/De: The NA-24 Collaboration

Subject/: Status of the NA24 experiment and beam time requirements
Concerne

We would like to inform the members of the SPSC on the progress of the NA-24 experiment and discuss our beam time requirements for 1982.

The proportional wire chamber telescope is almost completed. Five out of a total of six chambers are installed and successfully tested in the H₂-beam line. The missing chamber will arrive at CERN by the middle of June.

The veto wall hodoscope has been tested in the H₁ beam line in the West Area and is now installed in the experiment.

The photon position detector (PPD) is being assembled at present in the North Area outside the NA-24 experimental area. The last missing planes of proportional tubes for the PPD are due to arrive on the 22 May 1982. The PPD will be installed in front of the NA5 calorimeter after the calibration of the NA5 calorimeter is completed. This calibration was scheduled in Period 1(a), but could not be finished by then because of the frequent EDF-power reductions during this time. According to the new schedule the NA5 calorimeter calibration is foreseen to be completed in period 2(b). Originally we planned to install the PPD in period 2, which was dedicated to the collider physics. But with the new situation this installation is rendered somewhat more difficult since work in the NA24 experiment area is only possible during the short beam interruptions between the running periods. In spite of this difficulty we plan to have the PPD completely installed by the end of July by proceeding with the assembly of the PPD outside the experimental area and using efficiently the time available between the running periods.

It is our aim to record some test data with directly produced photons using incident π^- beams at 300 GeV/c before the shutdown of the SPS for fixed target physics in September 1982. These data we intend to analyse and study during the long shutdown period to be able to improve data taking in 1983.

- To achieve this goal we would need the following beam time:
- 17 days in period 4(a) for setting up and PPD calibration;
 - 7 days in period 4(b) for trigger studies and high intensity tests;
 - 10 days in period 4(b) for test data taking.

We kindly request the members of the SPSC to approve our plans.

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