1. Procedure

The minutes of the last meeting (NPRC 35, 27.7.1964) were approved.

2. Situation at the PS

Lock summarized the work carried out since the previous meeting. Good progress had been made with all counter experiments now in progress and one (S26) had finished. The first production run of E11a ($\Sigma^+$ magnetic moment experiment) was made in the second half of August.

3. Programme until Christmas

For the TCC, Butler said that the six weeks of main user time scheduled should enable:

a) the 81-cm chamber to complete the present programme of experiments using deuterium; and

b) the 150-cm chamber to reach the aim of $5 \times 10^5 K^-$ pictures at 5 - 6 GeV/c and perhaps to take some 5 - 6 GeV/c and/or 12 GeV/c pion pictures.

If all went well with the RF version of the o$_2$ beam, it might be possible to make a major run with $\geq 8$ GeV/c K$^-$ particles in the second part of December.
It was decided by the NRPC that both the neutrino calibration run and the T86 experiment should be carried out in the Lagarrigue bubble chamber in the first two weeks of October. To enable counter experiments to run at the same time, it would be necessary to run the machine at a 4-second repetition rate for the neutrino calibration experiment and at about a 3-second rate for the T86 experiment. This was agreed.

The proposal of Leith et al. (CERN/TC/PHYSICS 64-25) to investigate "The production of massive particles within the framework of the Lee scheme" was referred to the Directorate for a decision.

For the EEC, Puppi mentioned that the experiments now in progress would probably continue until the spring. The proposal of the EEC to install the experiment of de Bouard et al. to search for $K_2^0 \rightarrow 2\pi$ at 10 GeV/c, using a neutral beam in the South Hall, was accepted.

4. The X2 experiment and the 1965 neutrino experimental programme

It was provisionally decided to:

a) schedule 3-4 weeks of $\nu$ run in the enlarged heavy liquid bubble chamber before the April 1965 shut-down;

b) to move the chamber into the North Hall during the shut-down; and

c) to schedule the X2 experiment in June, July, August 1965 when the new k$_5$ beam would be ready.

5. New beams for 1965

Munday briefly outlined the situation. The m$_5$ beam will be installed in the North Hall during the April shut-down, as will the new k$_5$, although the detailed design of the latter is not yet available, and some problems of space have yet to be overcome.
In the East Area, work is in progress to study the various possibilities to put high-energy particles into the 2-m bubble chamber. Detailed proposals should be available shortly.

6. **SC programme**

The recommendation of the EoC to allocate about three months of machine time to the continuation of the experiment on $\pi^+ \rightarrow \pi^0 + e + \nu$ was approved. It was understood that some time for the Sens experiment (muonic X-rays) and some time for 'b' priority experiments was not excluded by this decision.

The Director-General announced that Zavattini would continue as SC Co-ordinator for a further year.

7. **Next meeting**

Wednesday, 7 October, at 9.30 a.m.

W.O. Lock