1. Procedure

The minutes of the last meeting (NPRC 34, 10.6.64.) were approved, subject to two corrections, namely:

i) the last sentence of the paragraph in §2 should be deleted; and

ii) the sentence beginning on line 4 of page 2 "The recommendation ... not accepted" should be deleted and replaced by "It was agreed that testing of equipment could be carried out at the PS".

2. Situation at the PS

Armenteros, Butler and Munday summarized the work carried out in the previous month. In the 81 cm chamber, some 250,000 pictures of 800 - 1200 MeV/c K\(^-\) in hydrogen and 300,000 pictures of 1.2 GeV/c \(\bar{p}\) in hydrogen were taken, which completes these two experiments. Some time was spent investigating \(\bar{p}\) fluxes at 600 MeV/c. It was not possible to run the chamber with deuterium due to lack of time to test the equipment.

The 1.5 m hydrogen chamber had a successful run. Some 10,000 high-energy \(\pi^-\) pictures were taken as part of a technical run of the chamber. Subsequently, 140,000 pictures of 5 GeV/c K\(^-\), 66,000 of K\(^-\) at 6 GeV/c and 60,000 pictures of 5 GeV/c K\(^+\) were taken over a total time of four weeks, i.e. 280,000 K pictures in all. When the chamber was not running, it was possible to expose several large emulsion stacks to 5 GeV/c K\(^-\) and anti-protons, largely for the French collaboration.
In the other beams, one counter experiment had finished (S5), three were taking data (S11, S24, S26) and three were just starting (S29, S30, S31). In the $a_3$ beam, the $Z^+$ magnetic-moment experiment (E11a) made an extensive test run during the period of the bubble-chamber main runs.

3. **The programme at the PS up to Christmas**

a) The recommendation of the Track Chamber Committee that 100,000 pictures for experiment T36 in the $a_2$ beam should be taken when convenient, was accepted. No decision was taken about the neutrino calibration run.

b) The request of Falk-Vairant for about nine shifts of complete main user time to study the conjectured 2800 MeV nucleon isobar, was granted (see "Proposal for an extension of the S26 experiment": stencil 9228/p/1m).

c) From mid-September up to Christmas, some 11½ weeks of machine use should be available for nuclear physics. The Experimental Planning Group was asked to submit a tentative schedule for this time to the next meeting of the Committee.

4. **New beams for 1965**

A preliminary proposal for a new $m$ beam (the $m_4$) for Track Chambers in the North Hall was presented by G.L. Munday. This entails the disappearance of the present $a$ beam; this was agreed to by the Committee. Consequently, the $k_4$ beam will have to be repositioned and will probably have to originate from target $F$. A test beam (the $w$ beam) for the CERN 2 m chamber will be built in the East Area during the autumn without interfering with the present beams in that area.
5. Future experimental programme

Butler summarized the views of the TCC. For the next half year (say up to March), there is:

a) continuation of work in the $k_\alpha$ beam using deuterium in the 81 cm chamber;

b) continuation of taking pictures of 6 GeV/c $K^-$ interactions in the 150 cm chamber (rather than at 5 GeV/c). According to Neale, it should be possible to run the beam at 6 GeV/c at a 2-second repetition rate and a machine energy of 21.5 GeV;

c) 1-2 weeks of running the r.f. version of the $o_2$ beam as soon as this is technically feasible. There is some possibility of operating this beam together with the $k_\alpha$ beam; and

d) the "parasite runs" for the high-energy collaboration (pions and protons). An investigation is now being carried out as to the number of events needed at each incident energy to yield data of good statistical weight.

There was a discussion on the X2 experiment and a decision will be reached at the September IPFC meeting.

For the EMC, Preiswerk indicated that the programme of experiments now established would remain until about Christmas. The continuation of work by the Cocconi-Nethercill group and by the Fulk group in the East Area would depend upon proposals to be put to the EMC at their next meeting.

The programme of experiments of the Emulsion Committee was summarized by Bkapong; details can be found in EmC 64-14 (minutes of July 1st meeting).

6. SC experiment

The MFRC was in favour of the proposal to carry out muonic X-ray studies at the SC using solid-state detectors. However, this experiment should in no way slow down the analysis of the other two experiments in which the proposers are already involved.
7. **Next meeting**

The next meeting will be held on Wednesday, 9 September at 9:30 a.m.

W.O. Lock