



CM-P00063851

6th November, 1962.

SUMMARY OF THE DISCUSSION IN THE SMALL MEETING
OF THE ELECTRONIC EXPERIMENTS COMMITTEE
OF 22 OCTOBER, 1962

Present : P. Preiswerk
A.M. Wetherell
E. Zavattini
D. Harting - Secretary

Part-time : L. Dick
B.D. Hyams
W.O. Lock

I. PS PROGRAMME

a) Outstanding problems for Period III

The neutrino group is planning to do in December an experiment at PS, for which no proposal has been submitted (Hyams). Preiswerk will discuss the relation between the EEC and the neutrino spark chamber group with the Director-General.

Hyams remarked that it is essential to allocate the 20% Director-General's pocket machine time to a definite group at least a few weeks ahead. This might be a point of discussion in future EEC meetings.

b) Beam situation in Period I 1963

Serious difficulties may arise in providing particle beams for the counter experiments considered for this period. The situation is as follows :

South Hall :

1) d beam (high energy pions). It is not yet certain that a beam of this kind can be made, due to the difficulties with the Araldite vacuum chamber.

- 2) c beam (high energy protons). It may be possible to have a c-beam when the neutrino experiment does not run, but only when beam transport for the fast ejection can be easily removed.

Setting up a c-beam in the East Area is difficult (Wetherell).

- 3) m₂ beam. Can probably stay.
- 4) q beam. This beam can stay, but no counter experiments using this beam have so far been considered.
- 5) Test-beams. These can be made.

North Hall :

- 1) a₂ beam. This beam will be available.

East Area :

- 1) Proton beam. See above.
- 2) Muon beam. In the last NPRC meeting several members expressed the opinion that the financial situation of CERN did not permit this beam to be built in the near future.

Any final decision on this problem will depend on a better assessment of the importance of the muon research for which this beam is essential. Especially on the possibility of inelastic muon scattering too little is known at present.

Preiswerk pointed out that an expenditure of over 0.2 M Sw.Fr. on this project in 1963 involves stopping another experiment.

c) Stand-by for the neutrino experiment

The possibility was discussed to have one or more counter experiments to act as stand-by for the neutrino experiment. Depends on the availability of suitable particle beams.

d) Other business

Preiswerk pointed out a few corrections that have to be made in the minutes of the last EEC meeting. These will appear in the Minutes of the EEC meeting of 11 November, 1962.

The code number of the Taylor and Lundby experiments should be modernized and it should be ascertained what experiment Lundby is exactly planning for Period III and Period I of 1963.

Harting proposes the following code numbers :

S₁₉ p-p elastic and inelastic scattering (Taylor)
S₂₀ strange particle physics (Lundby).

II. SC PROGRAMME

a) Letters of intention

The experiment $p + d \rightarrow ABC + He^3$ (Sens) is probably not feasible.

No other developments.

b) Proposals

It was decided that :

12 shifts of machine time for testing apparatus can be allocated to $p + p \rightarrow p + p + \pi^0$ (Heymann).

15 shifts can be allocated for tests of apparatus for $\mu \rightarrow 3e$ (Newth).

50 shifts recommended to be allocated to the radiative μ^- capture (Conversi).

Next Meeting : Sunday 11 November, 1962 at 9-30 a.m. in
Professor Preiswerk's office.