

CERN LIBRARIES, GENEVA

Date: 15 April, 1965



CM-P00063833

MEMORANDUM

To : The members of the Nuclear Physics Research Committee
 From : The EEC
 Subject : Minutes of the Electronics Experiments Committee Meeting
 of April 6, 1965.

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PS; Period July 15 - December 1965

The following experiments will run in this period:

d₁₈ beam: K⁻p charge exchange (CERN/ETH)
 h₃ : muon storage ring
 b₈ : K_s interference (Bott-Bodenhausen et al.)
 d₂₂ : π charge exchange on pol. protons (Falk-Vairant et al.)
 e₁ : Test slow extraction (Diddens et al.)
 q₃ : Branching ratio in η decay (Querzoli et al.)

This programme leaves open:

d₁₈ beam: 2 weeks
 m₄ beam:
 d₂₂ beam: possibility of placing an experiment behind Falk-group
 e₁ beam: possibility for a second user of the slow extracted beam
 q₃ beam: possibility for a second user.

As candidates are considered

1. K_s-interference proposal (Friedberg et al.)
 It is proposed to study interference in K⁰ → 2π decay close to the production point in the slow extracted beam. The proposal is recommended for approval. Scheduling of the requested test run is left to the P.S. co-ordinator.
2. Proton polarization in Lambda decay (Bienlein et al.)
 The problem is considered to be of great interest. It is, however, a difficult and long experiment; a more detailed study of its feasibility is encouraged. The EEC will then consider a test

run, if this is necessary. The experiment can not be put on the programme for the July - December 1965 period.

3. Papelep and Ξ parity

Both these experiments are likely to finish before the July - December 1965 period. The m_4 beam will be kept in reserve in case further data taking (due to break-downs, analysis problems, etc.) is necessary.

4. Candidates for the q beam

A proposal on $\pi^- + p \rightarrow$ neutrals (H. Müller et al.) has been received and discussed briefly.

5. Candidates for the d beams

The candidates are missing mass (Maglić et al.), πp large-angle scattering (Lundby et al.) and π -pol.p scattering (Dick et al.).

At present the missing mass and the CERN/ETH experiments are installed in the d_{18} beam. The EEC recommends not to put a third experiment in this beam. Whether or not the missing-mass experiment will run during the July - December 1965 period will depend on the results of previous runs and on the acceptance of a specific programme for the time available in this period.

Finally the proposals on scattering of π 's, K's on polarized protons, the leptonic decays of resonances, and πp large-angle scattering were discussed at length in connection with the programme for 1966. The proposals are of considerable interest. It is realized that early decisions are required to enable adequate preparation. Puppi will present a very preliminary programme to the NPRC. It is not yet possible to make firm recommendations for the first half of 1966. A test run requested by the CERN/MUNICH group (leptonic decay of resonances) is recommended for approval in the July - December 1965 period in beam d_{22} , behind the Falk-Vairant set-up.

Date: 6 April, 1965

M E M O R A N D U M

To : The members of the Nuclear Physics Research Committee
 From : The EEC
 Subject : Minutes of the Electronics Experiments Committee meeting
 of April 6, 1965.

Present : J. Bell, G. Charpak, G. von Dardel, A. Diddens, H.J. Gerber,
 B. Gregory, B. Maglić, G. Munday, W. Paul, P. Preiswerk,
 G. Puppi and J.C. Sens.

1. PS; Period July 15 - December 1965

The following experiments will run in this period:

d₁₈ beam : CERN/ETH
 h₃ : muon storage ring
 b₈ : K₀ interference (Bott-Bodenhausen et al.)
 d₂₂ : π -charge exchange on pol. protons (Falk-Vairant et al.)
 e₁ : test slow extraction (Diddens et al.)
 q₃ : branching ratio in η -decay (Querzoli et al.)

This programme leaves open:

d₁₈ beam : 2 weeks
 m₄ beam :
 d₂₂ beam : possibility of placing an experiment behind Falk-group
 e₁ beam : possibility for a second user of the slow extracted beam.

As candidates are considered

1) K₀ interference proposal (Friedberg et al.)

It is proposed to study interference in K⁰ → 2 π decay close to the production point. The proposal is recommended for approval. Scheduling of the requested test run is left to the PS Coordinator.

2) Proton polarization in lambda decay (Bienlein et al.)

The problem is considered to be of great interest. It is, however, a difficult and long experiment; the authors are therefore encouraged to study its feasibility in more detail. The EEC will then consider a test run, if this is necessary. The experiment cannot be put on the programme for the July - December 1965 period.

3) Paplep and \equiv parity

Both these experiments are likely to finish before the July - December 1965 period. The m_4 beam will be kept in reserve in case further data taking (due to failures, analysis problems, etc.,) is unexpectedly needed.

4) Candidates for the d-beams

The candidates are Missing Mass (Maglić et al.), πp large angle scattering (Lundby et al.) and π -pol. p scattering (Dick et al.) At present the Missing Mass and the CERN/ETH experiments are installed in the d_{18} beam. The EEC recommends not to put a third experiment in this beam. Hence the missing mass experiment can take data during the July - December 1965 period. A specific programme is however requested as to what is going to be done during the 2 weeks of PS operation that are available.

Finally the proposals on scattering of π 's, K's on polarized protons, the leptonic decays of resonances, and π -p large angle scattering were discussed at length in connection with the programme for 1966. The proposals are of considerable interest. It is realized that early decisions are required to enable adequate preparation. Puppi will present a very preliminary programme to the NPRC. It is not yet possible to make firm recommendations for the first half of 1966. A test run requested by the CERN/MUNICH group (leptonic decay of resonances) is recommended for approval in the July - December 1965 period in beam d_{22} .