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EUROPEAN ORGANIZATION FOR NUCLEAR RESEARCH

PH I/COM-71/16 2 April, 1971

PHYSICS I ELECTRONICS EXPERIMENTS COMMITTEE

LETTER OF INTENTION ABOUT 1972

bу

 \wedge° missing mass group (S104)

MEMORANDUM TO THE EEC

from S104 ($^{\circ}$ missing mass)

Subject: Letter of intention about 1972.

After the completion of the approved part of the experiment, namely the study of the M^2 spectrum in the reaction $(1+p \rightarrow N^2 + M^2)$ at 6-10 GeV/c with $M^2 \sim M^2 \sim M^2$ (GeV/c), the Group is considering the two following eventual extensions of the experiment, both feasible with minor modifications to the apparatus:

i) study of the Mo spectrum in the reaction

at 5+7 GeV/c.

No changes are needed to the apparatus nor to the beam setup. K^- is selected at the triggering level. An M^o spectrum from a bubble chamber experiment (1) at \sim 5 GeV/c is shown in fig. 1.

ii) Measurement of the \mathcal{N}° polarization in the reaction \circ

at 5-7 GeV/c. Only very sparse data exist on these polarizations; it is obvious the high physical interest in an eventual comparison between the two crossed channels $\pi \to \Lambda^0 K^0$ and $K \to \Lambda^0 K^0$, and

For both the above mentioned possible developments calculations are under way; a detailed proposal will be submitted after a priority choice between the two possibilities.

- REFERENCES

1) Privata communication from BNL, Bubble Chamber Group.

2) CERN/D. PH. II / 71-2: Direct Measurement of Helicity Amplitudes n+p -1 K & E, Kp -> n-E+, B. Sadsulct

