



CM-P00052336

EUROPEAN ORGANIZATION FOR NUCLEAR RESEARCH

PH I/COM-68/26

1 March, 1968

PHYSICS I
ELECTRONICS EXPERIMENTS COMMITTEE

$K_{L,S}^0 \rightarrow 2\pi^0$ EXPERIMENT

by

J. Chollet, J.M. Gaillard, M.R. Jane,
T.J. Ratcliffe, J.P. Repellin,
K. Schubert, B. Wolf

EUROPEAN ORGANIZATION FOR NUCLEAR RESEARCH

Date: 1.3. 1968

Memorandum

To : E.E.C.
From : J. Chollet, J.M. Gaillard, M.R. Jane, T.J. Ratcliffe,
J.P. Repellin, K. Schubert, B. Wolff
Subject : $K_{L,S}^0 \rightarrow 2\pi^0$ experiment

=====

To date we have taken about 170.000 good pictures. With the two weeks remaining on the schedule, we will probably almost reach our planned 250.000 pictures. Of course we are ready to use any reserve week given to e_3 .

As far as future plans are concerned a preliminary study has been made of the possibility to measure $K_S^0 \rightarrow 3\pi^0$. It is still too early to submit a detailed proposal. For future planning we give a list of our possible requirements:

K^+ beam partially separated 3 - 4 GeV/c
Intensity $\sim 3 \times 10^4$ per burst
Running time ~ 6 weeks.