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M E M O R A N D U M

6th May, 1966.

To: Members of the EEC  
From: C. Alff-Steinberger, W. Heuer, K. Kleinknecht,  
C. Rubbia, A. Scribano, J. Steinberger,  
M. J. Tannenbaum and K. Tittel.

Re: Request for testing time in the neutral beam  $b_{10}$

We would like to request a running period of about ten days in the neutral beam  $b_{10}$ , in order to proceed to a complete tuning-up of our present  $K^0$  detector. More precisely we intend:

- (1) to collect some  $K_1 \rightarrow 2\pi$  decay events with the newly improved optics and spark chambers. A number of pictures are necessary in order to complete the development of Luciole programmes for the forthcoming experiment in the ejected proton beam.
- (2) to test the performance of a large gas Cerenkov counter to detect  $K \rightarrow \pi\nu$  decays, in replacement of a lead-scintillator sandwich not completely satisfactory in the old apparatus.
- (3) to test a new (hodoscope) triggering logic intended to smooth out the detection efficiency over the decay volume.
- (4) to measure a number of parameters on the coherent regeneration process in order to complete the analysis of the experimental data already collected.

We are prepared to run during (a fraction of) the data taking time allocated to the  $\eta$  experiment.

In this way one could minimise the interference with Soergel's experiment.