



CM-P00045593

M E M O R A N D U M

To/A : I. Butterworth, Chairman of the SPSC

From/De : WA14 Collaboration

Subject/: Request for further wide band running in 1978
Objet

We would like to ask for a period of wide-band running before the end of 1978, in order to improve rapidly the present results of the WA14 experiment. Assuming a good running efficiency during the present 4B period, about 1/3 of the total amount of pictures requested for this experiment will be obtained. Furthermore, no more wide-band running is foreseen before May 1979.

The results recently obtained in Gargamelle and in the 15' chamber on the $\nu_{\mu} + e \rightarrow \nu_{\mu} + e$ scattering both have few events, and clearly require further statistics to clarify the situation for this important reaction. Other channels are under study in the same exposure. Amongst them, a sample of about 40 dimuon events have already been obtained and analysed. The increase of statistics is also crucial for that channel, in order to improve on the lifetime of charmed particles and on the rate of V_0 produced in these events.

Since these topics are of high interest we think it justifiable that one of the remaining periods in 1978 be devoted to wide-band neutrino running. It could take place in P8, or preferably at an earlier time (P6 or P7) in order not to prevent a beam dump experiment in the first periods of 1979.

Note: A total of 300 000 pictures will be taken in the 15' in spring 1979.