

EUROPEAN ORGANIZATION FOR NUCLEAR RESEARCH

CERN LIBRARIES, GENEVA



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M E M O R A N D U M

To: The EEC
From: M. STEUER (Karlsruhe-Pisa-Vienna-IHEP Collaboration)
Subject: Request for PS machine time in b 16

The experiment to study the reactions $\pi^- p \rightarrow \pi^0 n$, $\pi^0 \pi^0 n$ at Serpukhov energies (PH I/COM-71/38 and PH I/COM-70/52) requires the use of several Multiwire Proportional Chambers, part of which have been constructed in Vienna. To test the $1.00 \times 1.00 \text{ m}^2$ MWPCs to be used in the gamma-detector (see fig. 1 of PH I/COM-71/38) a run at the PS is advantageous. The most suited beam for this purpose is the b 16, since it can deliver charged and neutral particles, so as to check the performance of the MWPC with gammas directly.

We therefore request beam time during the September and October runs in beam b 16, which can be in parasitic target 1 operation too. The space in the experimental area occupied by our apparatus is compatible with the presently installed set-up of the CHOV-Collaboration (see PH I/COM-71/46 and 72/15) and both tests can be performed simultaneously, if necessary.