CERN/ISRC/69-6 Add. 3 14 June 1969

## INTERSECTING STORAGE RINGS COMMITTEE

## ADDENDUM TO

## PROPOSAL FOR A DETAILED INVESTIGATION OF LOW-MOMENTUM PARTICLES EMITTED AT LARGE ANGLES FROM DD COLLISIONS AT THE ISR

## CONCERNING SIMPLIFICATION OF VACUUM CHAMBER

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- 1. As a result of discussions with
  - a) O. Czyżewski, concerning proposal ISRC/69-37 by the Cracow Emulsion Group, and
  - b) E. Fischer and R. Calder (ISR) concerning the technical problems associated with the vacuum chamber

we have found that the simplified vacuum chamber satisfying the requirements of the Cracow experiment (ISRC/69-37 Add. 1) can also be used for our experiment if its scope is reduced to some extent.

- 2. For our experiment this means that at least in the first stage of the investigation one concentrates on the pion secondaries with momenta exceeding about 50 MeV/c, on kaons above 120 MeV/c and on protons above 180 MeV/c. In the case of the pions, which are the most important, this means cutting off a momentum band which is weakly populated in any case (see Fig. 1 of original proposal).
- 3. The simultaneous use of one vacuum chamber for all the proposed emulsion experiments will considerably reduce both the construction effort and the time of occupation of a given interaction region for the emulsion exposure.
- 4. After evaluation of the results obtained in this first experiment one will be able to decide whether it is justified to build a vacuum chamber with a very thin window to investigate the extreme low-momentum region of the particle spectra.