



CM-P00043379

M E M O R A N D U M

To : Members of the ISRC

From : CERN-MIT-NAPOLI-PISA-STONYBROOK collaboration

Subject : Status of Experiment R 210 and Request for Installation of  
Electronic Equipment in the I2 Counting room from June 1980.

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1. Introduction

Experiment R 210 "Precise Measurement of the Proton-Antiproton Total Cross-Section at the CERN ISR" has been recommended by the ISRC (12th July 1979) followed by approval of the Research Board (19th July 1979)

Intersection 2 has been allocated to the experiment - as well as for Experiment R 211 - for installation during the summer 1980 shutdown.

2. Status of Experiment R 210

The collaboration is proceeding in the construction of the experimental set up :

- Hodoscopes H3 and H4 are now being tested at the PS
- Maintenance work on the drift chambers is well advanced
- New hodoscopes :
  - . H1 and H2 counters and stands being constructed;
  - . Central hodoscope CO is under construction;
  - . the small angle hodoscopes H5 and TB are being prepared.

All the work being carried out is following the scheduled programme which aims for the total completion, including tests, for the end of June 1980.

3. Requests

i) It is clear that the extension of the experiment set up requires more space in the counting room to locate the associated electronics and the computer. This extra space has to be gained on the MIT side of the counting room and will be needed as from mid-June 1980.

ii) We realize that the dismantling of the experimental set up of R 209 and installation of a new vacuum system for R 210/R 211 are quite important tasks which will require about 11 weeks of the 14 weeks summer shutdown.

We estimate that the installation and cabling of our set up will take not less than 5 weeks.

In order to cope the new installation with the planned summer shutdown, we request that an effort be made to start removing from the intersection region some equipment of R 209. The two weeks of the June 1980 shutdown would be ideal for this purpose.