

CERN LIBRARIES, GENEVA



CERN/ISRC/69-49  
3 July, 1969

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MINUTES OF THE SEVENTH MEETING OF THE  
INTERSECTING STORAGE RINGS COMMITTEE  
HELD ON 3 JULY, 1969

Present:- W. Jentschke (Chairman), F. Bonaudi, G. Charpak, G. Cocconi,  
C. Franzinetti, B.P. Gregory, F. Heymann, P. Marin, A. Minten,  
L. Resegotti, K. Winter.

Since the last meeting, the ISRC received the following papers:

- Memo on collaboration between emulsion groups working at the ISR (CERN ISRC/69-41).
- ISR study of dileptons, by a BNL-CERN-Columbia Collaboration (CERN ISRC/69-43).
- Memo on meeting discussing the use of interaction region No. 2 at the ISR, by K. Winter (CERN ISRC/69-44).
- Memo on possible coordination of proposed experiments at interaction region No. 4 at the ISR, by G. Charpak (CERN ISRC/69-45).
- Memo on possible arrangement in interaction region No. 6, by G. Cocconi (CERN ISRC/69-46).
- Memo by Scandinavian ISR Collaboration (CERN ISRC/69-48).

1. The minutes of the Sixth Meeting of the ISRC were approved.
2. L. Resegotti reported about the possibility of ordering D-sector magnet cores with reversed return yoke. (see also point 12 of these minutes)
3. G. Cocconi reported on discussions about a possible arrangement in interaction region No. 6.
4. K. Winter reported on a meeting discussing the use of interaction region No. 2.

5. G. Charpak reported on discussions of a possible coordination of proposed experiments at interaction region No. 4.
6. After further discussion of experimental proposals the ISRC recommends on the basis of the report given by G. Cocconi and F. Bonaudi (CERN ISRC/69-46) to accept in principle for the first period of ISR operation for interaction region No. 6 the following experiments:
  - a) A measurement of proton-proton total cross-section, by the Ist. Fisica, Pisa and Scuola Norm. Sup., Pisa and INFN-Pisa (CERN ISRC/69-12).
  - b) Elastic proton-proton scattering beyond the Coulomb interference region, by the CERN-Genova-Torino Group (CERN ISRC/69-19 and addendum).
  - c) Elastic proton-proton scattering in the Coulomb interference region, by the Ist. Sup. Sanità-CERN Group (CERN ISRC/69-20 and addendum).

Under the following conditions

- the experiment (a) alternates with a combined set-up of experiments (b) and (c)
  - the combined layout of (b) and (c) and an updated definition of the scope of these experiments should be presented to the ISRC at the next meeting
  - the order of running will be decided later.
7. On the basis of the report given at the meeting by K. Winter and F. Bonaudi (CERN ISRC/69-44) the ISRC recommends to accept in principle for the first period of ISR operation for interaction region No. 2 the following experiments
    - a) A survey of stable particle production around  $90^\circ$  by means of a spectrometer as shown in ISRC/69-44 figure 1 by the Bristol-Cambridge-Liverpool-University College-Westfield College-Rutherford Laboratory Collaboration (ISRC/69-3) and by the Scandinavian ISR Collaboration (ISRC/69-2).
    - b) A search for high transverse momentum muons and for muon pairs by the Bristol-Cambridge-Liverpool-University College-Westfield College-Rutherford Laboratory Collaboration (ISRC/69-3).

- c) A survey of stable particle production at small angles up to 150 mrad by means of a vertical spectrometer by the CERN-Holland/Lancaster-Manchester Collaboration (ISRC/69-5).
- d) A survey of stable particle production at medium angles (100 to 300 mrad) by means of a horizontal spectrometer by the Bologna/Michigan Collaboration (ISRC/69-7 and addendum).

The possibility of simultaneous running of all four experiments depends on the feasibility of the special vacuum chamber.

8. On the basis of a report given at the meeting by G. Charpak (ISRC/69-45) the ISRC
  - recommends that members of the CERN-München Group and of the CERN-Hamburg-Orsay-Vienna Group collaborate with the Charpak-Minten Group in the construction of the detector for the split field magnet system;
  - takes note of the intention of the participating physicists to use the detector before the installation of the magnet for an initial test and survey programme;
  - recommends to accept in principle a study of isobar production by the CERN-Hamburg-Orsay-Vienna Group (ISRC/69-14) as one of the experiments to be done with the split field magnet.
9. The ISRC recommends to accept in principle, subject to a successful background exposure at the PS and subject to the feasibility of the installation of equipment at the ISR, simultaneous exposures for emulsion experiments by the Cracow Group (ISRC/69-37 and addendum) and by the Bucharest-CERN Group (ISRC/69-6 and addenda 1,2 and 3).
10. The ISRC emphasizes that all recommendations are valid only for the suggested groupings and the suggested use of space and equipment. The recommendations also remain subject to the technical and financial limitations arising from the requirements of equipment, power and services to be supplied by CERN.
11. The ISRC encourages the Saclay Group to continue with the work involved in the  $\gamma$ -ray spectrum survey as outlined in the first phase of ISRC/69-11 and its addendum;

- invites representatives of the Saclay Group (ISRC/69-11) and of the BNL-CERN-Columbia Group to present their proposals in an open meeting of the ISRC on 23 September;                    ∴
- recommends that after this presentation a further meeting be convened by C. Franzinetti between members of the Saclay and the BNL-CERN-Columbia Groups to initiate a discussion on the relative merits of their experiments with a view to possibly presenting a combined proposal.

12. The ISRC recommends ordering four D-sector magnet cores with reversed return yoke to make the small angle region free for the use of long spectrometers.

13. Future meetings

The next meetings of the ISRC will probably be held on

23 September, at 2.30 p.m. (open). The Chairman of the ISRC will  
report on the work of the committee.

24 September, at 9.00 a.m. (closed).