

CERN/ISRC/72-15

25 May 1972

EUROPEAN ORGANIZATION FOR NUCLEAR RESEARCH

DRAFT MINUTES OF THE TWENTY-NINTH MEETING
OF THE INTERSECTING STORAGE RINGS COMMITTEE

HELD ON 24 MAY, 1972

OPEN SESSION

1. A status report on the Performance of the ISR was given by W. Schnell.
2. A status report on Experiment R 601, Measurement of Proton-Proton Differential Cross Section in the Coulomb Interference Region (CERN-Rome collaboration) was given by U. Amaldi.
3. A status report on the Split-Field Magnet Detection System, Including the Central Region, was given by A. Minten.
4. A brief presentation of the Proposal for Observation of High-Multiplicity Events at the ISR with Streamer Chambers in the Split-Field Magnet (Aachen-CERN-München collaboration) was made by M. Holder.

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CLOSED SESSION

Present: B. P. Gregory (Chairman), J. S. Bell, M. H. Blewett, F. Bonaudi,
A. B. Clegg, G. von Dardel, P. Darriulat (part time),
G. Giacomelli, K. Hübner, W. Jentschke, J. Lefrançois, E. Lohrmann,
D. Morrison, G. Munday (part time), K. Potter, J. Prentki,
L. Resegotti, W. Schnell, H. Schopper, J. Steinberger,
K. Tittel (part time), E. Zavattini.

Since the last meeting, the ISRC has received the following documents:

- Letter of Intent: Measurement of High Transverse Momentum Charged Particles, by M. Banner, et al., C.E.N. de Saclay, CERN/ISRC/72-13.
- Scheduling of Experiments R 601 and R 602 in Intersection 6, by K. M. Potter, CERN/ISRC/72-14.

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CM-P00063246

1. The Draft Minutes of the Twenty-eighth Meeting of the ISRC were approved.

2. Status Report

The ISR Co-ordinator, K. Potter, reviewed the present status of the experimental program. He also mentioned that the luminosity of the ISR had been increasing since the last ISRC meeting and had reached the level of $10^{30} \text{ cm}^{-2} \text{ sec}^{-1}$.

3. Scheduling Problems

- (a) At Intersection I-6

K. Potter outlined the situation described in his report (CERN/ISRC/72-14). After considerable discussion, it was the opinion of the Committee that the present vacuum chamber at I-6 should be left in place with no modification until the end of the year. At this time, a new vacuum chamber now under design for Experiment R 603 would be installed and, after the year-end shutdown, Experiment R 602 would have the opportunity to finish its experiment before the installation of Experiment R 603 if this has not been possible with the present chamber.

The request from Experiment R 601, made at the Open Session, for two runs at 11.8 GeV with a narrow beam, will be scheduled by the ISR Co-ordinator after consultation with other experimental groups and the ISR Department. The Committee would like to point out that the decision regarding the vacuum chamber at I-6 necessitates Experiment R 601 to be completed before the end of this year.

- (b) Ejection from the PS to ISR and West Area

G. Munday discussed some of the difficulties that may be encountered next year in scheduling ejection from the PS to the West Area for Omega and BEBC, to the ISR, and for other parts of the PS experimental program. He pointed out that there may not be the possibility of having as much flexibility in providing different energies for the ISR. However, several groups are considering various possible solutions and these will be reported later.

The ISRC suggests that every effort should be made to seek some form of schedule that will not reduce, below the present level, the proportion of time for running the ISR at 26 GeV (or higher energy).

4. The Split-Field Magnet Program

The SFM Co-ordinator, K. Tittel, gave a brief review of the status of the Split-Field Magnet Facility and the preparations of the groups whose experiments had been recommended for approval, in principle, at

the Twenty-third Meeting of the ISRC (CERN/ISRC/71-44).

The ISRC expressed satisfaction at the progress made in these preparations and in the development of the central-region detectors.

Although it was felt to be too early to make a definitive schedule for the SFM program, the Committee suggested some guidelines to help the SFM Co-ordinator continue his planning activities with the groups involved. If all goes well, these guidelines are foreseen to lead to a program for 1973 that can bring the SFM Facility into an operating condition and to provide some initial physics data.

Three consecutive periods of time are proposed, as follows:

- (a) With the magnet system and the "forward detectors" installed during the year-end shutdown, the first period would be used for testing the effects of the magnet on the ISR and the testing and running-in of the detectors. Some of the data obtained during this time should be made available to all of the experimental groups in the program for understanding the detection system and the methods of analysis.

Installation of detectors for the central region of the SFM could take place during the following two periods as they become ready. Testing of these detectors would be carried out (in similar fashion to the testing of the forward detectors) in parallel with the suggestions which follow.

- (b) In the second period, the equipment for the experiment of the CERN-Hamburg-Orsay-Vienna collaboration could be installed and some data for this experiment could be obtained.
- (c) During the third period, equipment for the forward part of the experiment of the Bologna-CERN collaboration could be installed and some data for this experiment could be obtained.

During periods (b) and (c), it would be desirable to include some testing of the equipment for the other experiments involved in the program, with opportunities for obtaining test data on a parasitic basis.

The SFM Co-ordinator was requested to discuss these guidelines with the experimental groups and to proceed with planning the details whereby the beginning of the SFM program can be conducted along these lines.

5. New Proposal

The ISRC discussed the Proposal, presented at the Open Session, for the Observation of High-Multiplicity Events at the ISR with Streamer Chambers in the Split-Field Magnet, by the Aachen-CERN-München collaboration (CERN/ISRC/71-46 and /71-46 Add. 1).

The Committee expressed the opinion that a detector of this type would be a valuable addition in the ISR program. However, its installation in the Split-Field Magnet does not appear to be possible during 1973 in view of the program outlined above in Item 4.

6. Item Pending from Previous Meeting

The Committee discussed the Progress Report for the First Quarter 1972 and Physics Program for R 602, from the Aachen-CERN-Harvard-Genova-Torino collaboration (CERN/ISRC/69-19 Add. 6) and requests this group to present these ideas together with a status report on Experiment R 602 at the Open Session of the next ISRC meeting.

7. Other Business

The Committee took note of the Letter of Intent: Measurement of High Transverse Momentum Charged Particles, from M. Banner, et al., (CERN/ISRC/72-13) and, in anticipation of receiving this Proposal, proposes that it be discussed at an Open Session.

8. Next Meeting

The next meeting of the ISRC will be held on Wednesday, 21 June, 1972.

Open Session : 9.30 a.m. in the CERN Council Chamber

Closed Session: 2.30 p.m. in the ISR Conference Room (L 30/6-003)

Since the schedule for NPRC meetings is not known past July, no tentative dates were set for further ISRC meetings.

M. H. Blewett