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CERN/ISRC/72-19

22 June 1972

EUROPEAN ORGANIZATION FOR NUCLEAR RESEARCH

DRAFT MINUTES OF THE THIRTIETH MEETING

OF THE INTERSECTING STORAGE RINGS COMMITTEE

HELD ON 21 JUNE, 1972

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OPEN SESSION

1. A report on the present status and future plans of Experiment R 602, Measurement of the Elastic Scattering Cross Section Beyond the Coulomb Interference Region (Aachen-CERN-Genova-Harvard-Torino collaboration), was presented by C. Rubbia.
2. A brief presentation of the Proposal for Measurement of High Transverse Momentum Charged Particles (C.E.N. de Saclay) was given by M. Banner.

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CLOSED SESSION

Present: E. Lohrmann (Acting Chairman), M. H. Blewett, A. B. Clegg, B. J. Couchman, G. von Dardel, G. Giacomelli (part time), W. Jentschke, J. Lefrançois, D. Morrison, E. Picasso, K. Potter, L. Resegotti, W. Schnell, H. Schopper, J. Steinberger, E. Zavattini.

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

- An Addendum to Experiment R 204: The Reason for Requesting 31 GeV/c Beams in the ISR, by the British Collaboration, CERN/ISRC/69-3 Add. 1.
- Proposal for the Measurement of High Transverse Momentum Charged Particles, by M. Banner, et al., C.E.N. de Saclay, CERN/ISRC/72-13 Add. 1.
- Proposal for Observation of Inelastic Proton-Proton Collisions at the ISR with Streamer Chambers, by the Aachen-CERN-München collaboration, CERN/ISRC/72-17.

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1. Minutes of Twenty-Ninth Meeting

In the Draft Minutes of the Twenty-Ninth Meeting of the ISRC, it was proposed to replace paragraph (a) of Item 4 with the following:

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- (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, for testing and running-in the detectors, and for some data taking. During physics runs in this period, the SFM Detector Group (Charpak, et al.) will be in charge at intersection region I-4; data obtained during this time will be made available to all of the experimental groups in the SFM program for understanding the detection system and the methods of analysis.

With this revision, these Minutes were approved.

2. Status Report

The ISR Co-ordinator, K. Potter, reviewed the present status of the experimental program. He noted that, during the last period of operation, the "Terwilliger scheme" had been tried successfully at 11.5 GeV in the ISR, with a resulting reduction in the length of the interaction diamond at region I-6 from 20 cm to 6 cm.

A report on results from Experiment R 402, A Search for Quarks at the CERN Intersecting Storage Rings by the CERN-Munich collaboration, was distributed to the Committee.

3. Discussion of Proposal Presented at Open Session

The Committee discussed briefly the Proposal for Measurement of High Transverse Momentum Charged Particles by the Saclay Group, presented at the Open Session, and took note of the written Proposal (CERN/ISRC/72-13 Add. 1) which was distributed at the Closed Session.

Since there has not been time to study this written proposal, nor to learn what support will be required for pursuing this experiment, a decision was postponed until the next meeting.

4. Item Pending from Previous Meetings

The Committee appreciated the report on the status and future plans for Experiment R 602 (Aachen-CERN-Genova-Harvard-Torino collaboration) presented at the Open Session and noted, with interest, the possible byproducts from the present data that can be obtained without extra equipment. The ISRC would like to be kept informed of results from these data.

The Committee was also interested to hear of the future plan to study $pp\pi^0$ events with the addition of lead glass counters and encourages the ACGHT Collaboration to put forward a written proposal which would give the details of this installation and which would indicate the timescale for the complete program for Experiment R 602.

5. Other Business

(a) Request from Experiment R 601

Through the ISR Co-ordinator and at the Open Session, Experiment R 601 (Rome-CERN collaboration) requested an extension of one operation period (3 weeks) after the July shutdown, with the vacuum chamber at intersection I-6 in its present configuration.

The Committee agrees to this request with the understanding that this extension will complete the Coulomb interference measurements for R 601.

The explicit timetable for the vacuum chamber at I-6 will then be: it will be left unchanged at the July shutdown; one "rocking" movement will be made in mid-August; no other change will be made until the year-end shutdown when a new chamber, compatible for the small-angle measurements of R 602 and for Experiment R 603, will be installed.

(b) Request from the NPRC

At its 108th Meeting the NPRC requested the ISRC to provide an updated list of the experiments in the SFM program, taking into account changes which may have taken place since October, 1971.

The ISRC requests the SFM Co-ordinator, K. Tittel, to prepare a draft document for presenting this information to the NPRC and this will be reviewed at the next ISRC meeting.

(c) Request for Operation of the ISR at 31 GeV

The ISRC took note of the Addendum to Experiment R 204: The Reason for Requesting 31 GeV/c Beams in the ISR (CERN/ISRC/69-3 Add. 1) from the British collaboration. W. Schnell informed the Committee that the ISR Department is working on the development of the ISR to provide energies of about 31 GeV.

(d) New Proposal

The Committee took note of the Proposal for Observation of Inelastic Proton-Proton Collisions at the ISR with Streamer Chambers, by the Aachen-CERN-München collaboration (CERN/ISRC/72-17) and requests this group to present this proposal at the next Open Meeting of the ISRC.

6. Next Meeting

There will not be a meeting of the ISRC in July. The next meeting will be held on Wednesday, August 23, 1972.

Open Session : 9,30 a.m. in the CERN Council Chamber

Closed Session: 2.30 p.m. in the ISR Conference Room (L30/6-003)

M. H. Blewett