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CERN/ISRC/73-6

23 February 1973

EUROPEAN ORGANIZATION FOR NUCLEAR RESEARCH

DRAFT MINUTES OF THE THIRTY-FIFTH MEETING

OF THE INTERSECTING STORAGE RINGS COMMITTEE

HELD ON 21 FEBRUARY, 1973

OPEN SESSION

1. The Request for Permission to Add Gamma Cerenkov Counters to Experiment R 801 was presented by P. Grannis together with a brief status report on this experiment.
2. M. Jacob presented "A Theorist's View of Results from ISR Experiments", with emphasis on those obtained recently.

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CLOSED SESSION

Present: B. P. Gregory (Chairman), M. Banner, G. Bellettini, M. H. Blewett, F. Bonaudi, A. B. Clegg, G. von Dardel, L. Di Lella, K. Hübner, M. Jacob, W. Jentschke, K. Johnsen, F. Muller, E. Picasso, H. Schopper, J. Steinberger, K. Tittel (part time), A. Wetherell, E. Zavattini

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

- Memorandum on More Details on the  $4\pi$  Calorimeter and Request for a Test of Energy and Angular Resolutions to be Performed at the CERN-PS, from the Aachen-CERN-Harvard-Genova-Munich Collaboration (CERN/ISRC/72-32 Add. 1).
1. The Draft Minutes of the Thirty-fourth meeting of the ISRC were approved.
  2. Status Report and Scheduling

The ISR Co-ordinator, L. Di Lella, reported on the status of work in the experimental areas during the present shutdown, and gave final details on the schedule for physics runs during the first operating period of the ISR. He also mentioned the necessity for adjusting operating schedules during the latter half of 1973 and during 1974 to fit in with the work of joining the injection tunnel for the SPS (TT 10) to the tunnel TT2.

Copies of a preprint of results from Experiment R 601, "The Energy Dependence of the Proton-Proton Total Cross Section for Centre-of-Mass Energies between 23 and 53 GeV", by U. Amaldi, et al., were distributed to the Committee. At the Open Session, copies of a preprint of results from Experiment R 801, "Measurement of the Total Proton-Proton Cross Section at the ISR", by S. R. Amendolia, et al., had been made available.

3. Status Report on the Split-Field Magnet Facility

The SFM Co-ordinator, K. Tittel, reported on the status of the facility.

The magnet has been successfully tested to full power; measurements of the magnetic field are in progress with the expectation that they will be completed on schedule. Installation of the magnet in intersection I-4 is planned for May, 1973. Work on the vacuum chamber is progressing well with the "contingency" chamber ready and tested.

Construction of the "forward" detectors is progressing according to the schedule given to the ISR at its Thirty-third Meeting (CERN/ISRC/72-33); the electronics components are all on order and delivery has begun. For the "central" detectors, the first close-packed chamber (to be the prototype) is under construction and expected at the beginning of March.

4. Request for Additional Equipment for Experiment R 801

The ISRC recommends the approval of the "Request for Permission to Add Gamma Cerenkov Counters" to Experiment R 801, from the Pisa-Stony Brook Collaboration (CERN/ISRC/69-12 Add. 3).

However, the Committee would like to receive from the group a schedule of its activities planned for this year, particularly in view of the enlargement in scope of this experiment.

5. Discussion on Total Absorption Detectors

The ISRC continued the discussion, started at its previous meeting, on the proposals for total-absorption detectors, namely, the hadron calorimeters mentioned in the "Addendum to the Proposal to Study Large Transverse Momentum Events Using the Split-Field Magnet and the Streamer Chamber", by the Aachen-CERN-Munich Collaboration (CERN/ISRC/72-30 Add. 1); the "Proposal for a Large  $4\pi$  Calorimeter to Investigate Multibody Events at the ISR", by the Aachen-CERN-Harvard-Genova Collaboration (CERN/ISRC/72-32); and the proposal for "An Impactometer for the ISR", by W. J. Willis, Yale-Brookhaven (CERN/ISRC/73-1). The Committee also took note of the Memorandum on "More Details on the  $4\pi$  Calorimeter and Request for a Test of Energy and Angular Resolutions to be Performed at the CERN-PS" from the Aachen-CERN-Harvard-Genova-Munich Collaboration (CERN/ISRC/72-32 Add. 1).

The Committee does not recommend the approval, at this time, of these proposals for experiments at the ISR.

However, the ISRC does look with favour upon the development of such total-absorption detectors at CERN, and feels that a small test unit might be foreseen to be useful as a triggering device for experiments at the ISR.

6. Next Meetings

There will be no meeting of the ISRC in March.

The next meeting of the ISRC will be held on 11 April, 1973.

Tentatively, the date of the following meeting will be 23 May, 1973.

M. H. Blewett