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

- Memorandum on Status and Plans for Quark Search, from the CERN-Munich MPI Group, CERN/ISRC/71-8 Add. 2.

- Letter of Intention on Measurement of Two Particle Correlations in Multiparticle Events in the Fragmentation Region with the SFM Spectrometer, from the Karlsruhe-CERN Collaboration, CERN/ISRC/71-30.


- Angular Distribution of Secondary Particles Produced in the Intersecting Storage Rings at an Energy Equivalent to 1500 GeV, by the Bombay-CERN-Cracow Collaboration.

- Memorandum on Exploratory Tests for the Proposal to Search for Heavy Baryon Isomers at the ISR, from F. Bonaudi and K. M. Potter, CERN/ISRC/71-32.

- Memorandum Concerning Particle Production at Intermediate Angles, from the Bologna-ISR Group.

1. The Draft Minutes of the 21st Meeting of the ISRC were approved.

2. Status of ISR Physics Program

(a) The acting ISR Physics Co-ordinator, K. Potter, gave a short review of the present status of the ISR Physics program.
The Committee was pleased to hear that eight groups are now using the ISR, that the machine's performance has improved with beams of good quality at higher intensities, up to a maximum of 4 A in one ring and 3.5 A in the other, and a very successful long run of 36 hours duration.

The Committee also noted, with satisfaction, that in addition to the three energies already operational (15, 22 and 26 GeV in each ring), a fourth at 10.5 GeV is being studied. It was felt that, for the time being, operation should remain at these three previously established energies, with a fourth at 10.5 GeV added only if the next scheduled test proves successful. The Committee asked K. Potter to obtain from all the experimental groups information about their future requirements in energy as now foreseen.

(b) The Committee took note of the status reports from Experiments R 101 and 402 (CERN/ISRC/71-31 and CERN/ISRC/71-8 Add. 2).

Since Experiment R 101 is scheduled to be completed at the end of the next two-week running period, and therefore in view of this limitation in time, the Committee felt that some priority should be given to this experiment during the second week of the period. Details will be worked out by the ISR Co-ordinator.

The Committee noted that, in CERN/ISRC/71-31, the R 101 Collaboration mentions long-term plans but there was no discussion of this point which must wait until a proposal is sent to the ISRC.

3. **Budget Planning**

M. G. N. Hine gave a review of the general budgetary situation for CERN Laboratory I in the next few years, and the work up to the present of the Budget Analysis Committee and Program Evaluation Committee. Some of the results of reductions in overall CERN budgets and forecasts that have affected the ISR Department both in savings already made and foreseen reductions in operation and development of the machine were mentioned by K. Johnsen.
The ISRC commented along the following lines:

- The uniqueness of both the ISR machine and the physics results that may come from it should be borne in mind when reductions in the ISR program are being considered in comparison with those in more conventional programs.

- The reduction in total operating hours for the ISR to 3000 hours from a possible maximum of 4000, in 1972 and probably in 1973, was viewed with particular concern.

- The importance of raising the intensity of the ISR was stressed, and the use of the PS Booster for this purpose should not be delayed too long.

- A wide variation in energies in the ISR is highly desirable and the controls and other items required should have high priority.

Both Hine and Johnsen repeated previous warnings to the ISRC concerning the dangers of overcommitting the total ISR Program.

4. **Items Pending**

The Committee took note of the report from Bonaudi and Potter (CERN/ISRC/71-32) requested at the last Meeting concerning the feasibility of exploratory tests for the Proposal to Search for Heavy Baryon Isomers at the ISR (CERN/ISRC/70-18 and Add. 1 and Add. 2).

In view of the apparent compatibility with both Experiment R 402 and the tests by the SFM Detector group, the Committee recommends the acceptance of these tests for the Heavy Baryon Proposal, with the understanding that priorities remain with the SFMD group's tests and Experiment R 402 if incompatibilities develop in the future.
5. Program for the SFM Facility at I-4

Because of the interest already expressed, the ISRC will hold an all-day Open Meeting for presentations of proposals for using the SFM Facility on 19 October, 1971 (please note change of date). All those interested are reminded that the deadline for receiving proposals to use the SFM Facility is 30 September, 1971.

6. Other Business

The Committee took note of the Memorandum from the Bologna-ISR Group, in answer to the request made at the Twentieth Meeting of the ISRC (Minutes - CERN/ISRC/71-25 - item 6 (a)).

7. Next Meetings

The next meeting of the ISRC will be held (please note change of date):

**OPEN SESSIONS** - Tuesday, 19 October, 1971 at 9.30 and 14.30
in CERN Council Chamber

**CLOSED SESSION** - Wednesday, 20 October, 1971 at 9.30, and possibly 14.30
in ISR Large Conference Room, L-30/6-003.

M. H. Blewett