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CERN/ISRC 81-37
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M E M O R A N D U M

To: ISR Committee

From: D. Wegener, University of Dortmund

Subject: Running at I4 in 1982/1983

Recently the CERN-Bologna-Frascati Group has presented a proposal (CERN/ISRC 81-27, P109) which when approved can be the source of major conflicts with running experiments at the SFM Detector, in which my laboratory is engaged. In this letter I want to point out the nature of the possible conflict and the contribution of my laboratory in building of the SFM Detector.

My group has worked at the SFM Detector since 1971. Besides the work for our own experiments we have participated in the following general hardware and software developments, which were used by other collaborations, partially without proper reference to our work:

1. Setting up of the chambers and development of the trigger system, available for all users (3 man years).
2. Building, testing and setting up of the forward Cerenkov counters (5 man years).
3. Building, testing and setting up of the TOF counters (4 man years).
4. Building, testing and setting up of the LAR Detector (7 man years).
5. Test and calibration of de/dx chamber (1 man years).
6. Development of V^0 pattern recognition program (2 man years).
7. Development and check out of the reconstruction and the simulation programs (3 man years)

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Since the upgrading of the SFM Detector was performed by our collaboration with an appreciable contribution in manpower and money by the outside groups, we feel that we should get the opportunity to finish our physics program, whose high physics quality cannot be doubted. We see this aim jeopardized by the approval of further experiments in view of the limited lifetime of the ISR for high energy physics and the unstable running conditions during the last half year.

In summary, I want to emphasize strongly the large contribution of my laboratory to the development of the SFM Detector. The approval of experiment P109 will necessarily make it very difficult if not impossible to finish the approved experiments of a collaboration, which has built the detector and brought it into operation. In addition, the overwhelming part of the software development was done by our groups. Of course, we want to harvest the fruits of our work. These facts should not be neglected in a discussion of the SFM schedule, if CERN is willing to treat all European physicists on equal footing. Moreover, we feel that our physics program for the rest of the ISR running time is of highest interest and is based on sound physics arguments.