

21 December, 1983

5/I/84

SMP/1b



To Committee Members

MEMORANDUM

for information.

Comments from Sergei,
who will not be able to
attend the meeting
on Jan 30-31.

PGH

To : P.G. Hansen, Chairman of the PSCC
From : S.M. Polikanov, Member of the PSCC
Subject : Scientific policy at LEAR

At the time when LEAR is being in operation for the first year, the excitement of LEAR Users who are eager to get results is understandable. It is also clear from private conversations that some groups successfully collected data and hopefully will arrive at physical results. At the same time some groups are still faced with the tests of their equipment because they did not get beam time at the last period.

When discussing now the scientific policy at LEAR, we have to take as the starting point the assumption that LEAR will be used by physicists for a period of two years before the installation of the new \bar{p} accumulator starts. Under these conditions I would like to express my attitude to the scientific policy at LEAR as following :

1. All approved experiments have to be provided with the appropriate beam time.
2. In my opinion, experiments on nuclear physics at LEAR are far from being routine experiments which could be done at some standard accelerators. I hope that some of them will finally help the penetration of ideas of elementary particle physics into nuclear physics (e.g. effects due to quark structure of nucleons). For that reason I am strongly opposed to the interpretation of the nuclear physics as second rate physics.
3. Those groups which could not test their equipment because they did not get beam time and need only short blocks of beam time, need a priority to finish test experiments. Since then the planning with large blocks is certainly getting the most reasonable, as the beam time losses in setting LEAR will be reduced.
4. Further improvement of LEAR which results in higher intensity, better stability, etc., is of the first priority. That will help to perform successfully the scientific programme at LEAR.

I am in favour of LEAR development with the goal of broadening in the long term the range of available energies (both to lower and higher energies). However, each step in this direction should be weighed carefully, taking into account the current interests of LEAR Users.

5. I consider it reasonable to fix the schedule for the two first periods of LEAR operation in 1984. The rest should be planned after the end of the second period of LEAR operation. At this time it will be clear which groups suffered severely due to unforeseen losses of beam time.

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