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M E M O R A N D U M

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From/De: F. Brasse, coordinator of NA2/NA9

Subject/: Plans to use the muon beam line for antiprotons.
Concerne

If the present plans on using the muon beam line for antiprotons would be carried out, it would have the following strong effects on our muon program:

- 1) The available fixed target time of SPS operation would have to be shared with the new experiment leading to a further important slowing down of our experiments in addition to the limitations in the near future imposed by the pp collider and SPS running time.
- 2) The antiproton beam is foreseen to run through several of our parking positions for large detectors. This means that for shorter shutdowns during times where the antiproton beam runs, we have no access to many of our large detectors, leading to a reduction of maintenance possibilities. In addition the flexibility, which we have now to change between vertex-system running and polarised target or long target running would be greatly lost.

In view of our dense and tight program up to the middle of 1985 as summarised in our note SPSC/81-84, SPSC/M-304, it seems to be extremely difficult to foresee any major interruption until this program is finished. If indeed the muon line has to be used for antiprotons, then we have to ask for priority given to our muon experiments up to middle of 1985. This in addition has to be seen in conjunction with the NA4 program. The much better solution of course would be one which does not interfere with the muon program.