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P.S. Programme up to July 15th
and tentative P.S. Programme from July 19th onwards

1. The programme shown by table 1 presents in columns 9 and 10 the rate of increase that could be afforded this year, taking into account the staff situation as well as the time needed for maintenance and experimental set-up.

A tentative allocation of time to experiments is shown in columns 3 and 4. It presents a net increase after summer when the installation in the South Experimental Hall will be finished and the beam transport equipment available.

2. For the near future, scheme 2 has been accepted as final and will be used from April 19th up to July 15th. The corresponding frame is given in Table 2. The following comments may be made on this scheme.

(a) The corresponding frame is an extention of the present one. Evening running is extended up to 24.00 and two evenings are given to the experimenters.

(b) A long run of 72 hours during the week of May 30th is planned. (It represents roughly 4 hours/week added to the official time for the period considered).
A shutdown of 2 weeks will take place end of June for finishing the installation in the target area.

(c) It was agreed that the Monday evening could be used for efficient parasiting by the nuclear physicists and also that some time should be given if necessary by the experimenters for target testing.

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3. The other schemes proposed are, of course, derived having in mind a certain picture of the weekly frame of operation. For instance,

scheme 3 provides a continuous run of 21 h and one of 9 h per week

scheme 4 provides two runs each of uninterrupted 30 h per week

scheme 5 is merely a guess and corresponds to 112 h work on machine (operation and maintenance) which is the figure which was foreseen for the present machine group staff when completed and trained.

4. Some general comments on the schemes :

(a) The machine starting-up time is a guess based on our present experience; it should normally decrease at the end of the year but not by more than a factor of two.

(b) In using the time figures allocated to the experiments it is important to bear in mind the efficiency of the accelerator, i.e. the ratio of "beam on" to "beam scheduled". The average efficiency is now of the order of 70 o/o and it will probably not improve this year, increase in reliability being compensated probably by breakdowns due to the life of some machine parts and less time for maintenance effort.

(c) A shutdown of 2 weeks must be foreseen every three months.

(d) It is probable that at the end of the year some preparation time will need to be taken out of the experiments' own time as is done with other accelerators.

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Distribution : (open)

Leading Board
Leaders of Experimental Teams
Parameter Committee
Machine Group Committee.

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TABLE 1

1	2	3	4	5	6	7	8	9	10
Scheme Number	Proposed starting date	Experiments		Maintenance Modifications Experimental set-up		Machine		Total time of operation	Total work time on the machine
		Official	Parasitic	Free access	Lim. access	Starting procedure	Op. training Studies Part tests		
1	April 19th	5,5	9	8	17	13,5	30,5	49,5	57,5
2	July 18th	13	6,5	10	17	13,5	29	55,5	65,5
3	October 3rd	30	6	15	15	9	24	63	78
4	January 2nd 1961	60	—	15	13	9	18	87	102
5		78	—	16	8	7	11	96	112

1. The time is given in hours and corresponds to one typical week of the scheme proposed.
2. Column 9 is the sum of the figures in columns 3, 7 and 8.
   Column 10 is the sum of the figures in columns 9 and 5.

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TABLE 2

	Monday	Tuesday	Wednesday	Thursday	Friday
08.30	Set-up and Linac tests	Set-up and Linac tests		Part tests	Set-up and Linac tests
13.00	Operational Training	Machine Studies		Part tests	Machine Studies
17.30	Machine Studies	Nuclear Physics	Maintenance Experimental set-up Modifications		Nuclear Physics
24.00					

Remarks :

To enable the work in the South Hall, there is no possibility of external beams in the afternoon.

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