

Tentative Programme of the P.S. in 1960

1. The present draft programme has been established to serve in the quarterly meeting discussion.  
It represents the rate of increase that the machine group could afford this year, taking into account the staff situation and the work in progress on the machine. It has been briefly discussed with J.B. Adams and G. Cocconi.
2. The attached table is self-explanatory but some general comments can be useful.
  - (a) The different schemes proposed were of course derived having in mind a certain picture of the weekly frame of operation. These frames will be described at the meeting. The figures for schemes 3, 4 and 5 are rounded off. Scheme 3 supposes a continuous run of at least 24 hours per week. Scheme 4 supposes two such runs per week.
  - (b) The machine group staff when completed and trained is foreseen for 112 hours work on the machine (operation and maintenance). The table shows that this average will be reached at the end of the year.
  - (c) In 1961, the scheme proposed is a tentative guess. Most probably we shall have difficulty in finding the preparation time needed for the 78 hours of experiments. It is probable that some preparation time will need to be taken out of the experiments' own time as is done with other accelerators.
  - (d) 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.

(e) 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" or "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.

3. Scheme 1 is the present one. Scheme 2, if accepted, will be used from April 19th onwards. Some comments on scheme 2 are :

(a) The corresponding frame is an extension of the present one. Evening running is extended up to 24.00 and two evenings are given to the experimenters. More details will be given at the meeting.

(b) We propose a long run of 72 hours during the week of May 30th, (which represents roughly 4 hours/week added to the official time for the period considered).  
A shutdown of 2 weeks is essential in June for finishing the installation in the target area.

(c) Some of the time given to the experiments will be needed for target testing.

P. Germain.

Distribution : (closed)

J.B. Adams  
G. Brianti  
G. Cocconi  
P. Germain  
F. Grütter  
C. Peyrou  
P.H. Standley.

/ac.

1 Scheme Number	2 Proposed starting date	3 E x p e r i m e n t s		4 P a r a s i t i c	5 M a i n t e n a n c e M o d i f i c a t i o n s E x p e r i m e n t a l s e t - u p		6 M a c h i n e		7 S t a r t i n g p r o c e d u r e	8 O p . t r a i n i n g S t u d i e s P a r t t e s t s	9 T o t a l t i m e o f o p e r a t i o n	10 T o t a l w o r k t i m e o n t h e m a c h i n e
		Official	Parasitic		Free access	Lim. access						
1	April 19th	5,5	9		8	17	13,5	30,5	57,5	49,5		
2	July 18th	13	6,5		10	17	13,5	29	65,5	55,5		
3	October 3rd	30	6		15	15	9	24	78	63		
4	January 2nd 1961	60	—		15	13	9	18	102	87		
5		78	—		16	8	7	11	112	96		

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.