

To : Members of the Nuclear Physics Research Committee  
Board of Directors  
Experimental Team Leaders  
Deputy Experimental Team Leaders  
MPS Senior Staff  
MPS Engineers-in-Charge and Operators

From : PS Co-ordinator and PS Experimental Planning Group

Re : PS Draft Schedule for Period October 1966 - Easter 1967 (PS/Coord./207)

=====

Attached is a draft schedule for the PS covering the period October 1966 till Easter 1967. The schedule contains some wishful thinking:

1. Weeks 46, 47, 50 and 51:

The operations FE1 for  $h_3$ , FSE 58 for  $m_6$  and targets 1 and 64 long burst have never been tried and encounter some rather basic difficulties. If in the next Machine Development periods a satisfactory solution cannot be engineered, the relative priorities of the users have to be re-assessed.

2. Weeks 48, 49, 1 and 2:

The operation of  $e_3$ , in which it utilizes a few percent of the beam, ejected slowly simultaneously with long burst operation of target 1, has up to now not worked, despite several attempts. Also in this case the next few Machine Development periods will be dedicated in part to this problem. If our optimism should prove to be too great, a re-evaluation of the experiments in these 4 weeks will have to be made.

3. Weeks 5 and 6:

The operation of target 1 will depend on the solution of the problem of sharing the internal beam between slow ejection and a long burst target.

The following additional remarks have to be made:

1. Weeks 52, 9 and 10 are Reserve Weeks, to replace weeks lost due to machine failure.
2. Week 12 is a short week.

Your comments are invited.

Enc.: PS/Coord./207

A.N. Diddens  
G.L. Munday

DRAFT PS SCHEDULE FROM OCTOBER 1966 TO EASTER 1967

PS/Coord./207  
4 October, 1966

Date	13 - 23	October 27 - 6	November 10 - 20	24 - 4	December 8 - 23	5	January 19 - 29	February 2 - 12	16 - 26	2 - 12	16 - 23
Week	42 43	44 45	46 47	48 49	50 51 52	1 2	3 4	5 6	7 8	9 10	11 12
Machine Energy	15 19	19 19	19 19	19 19	19 19 19	19 19	22 / 19	19 19			
Cycle (sec.)	1.6 2.3	2.3 2.3	2.3 2.3	2.3 2.3	2.3 2.3 2.3	2.3 2.3	2.7 2.7	2.3 2.3			
Flat Top (m.s.)	300	300	300	300	300	300	200	300			
Long Burst (m.s.)	200	200	200	200	200	200	100	200			
FE 1	h <sub>3</sub> g-2	S33		v v		v v E				v v	E
	d <sub>25</sub> M.M.S.	S31	v v	v v							v
	d <sub>25a</sub> η → ππ γ	S52	T T	T T	v v	v v	v v	v? v?			v
	d Next User	S			v v	v v	v v	v? v?			R
	m <sub>4b</sub> Ξ β	S50	T T								E
	m <sub>4a</sub> E.M. Decays	S51		T T		T T		v v			v?
	m <sub>4b</sub> K p ↑	S48		T	v	v			v?		S
	q <sub>3a</sub> Neutral Resonances	S46	T v	T v	v T	v T	E	v T	v T	v? T?	E
	q <sub>3b</sub> β Δ	S45	v T	v T	T v	T v					R
#6	k <sub>7</sub> 81 cm HBC		v v v	v		v v					
#64	d <sub>22</sub> π <sup>-</sup> p → K Δ	S55	v v	v v	v v		v v				
	d <sub>22a</sub> E.M. Decays	S42	v v	v v	v v		v v				
SE 62	e <sub>3</sub> K <sup>0</sup> - K <sup>0</sup> <sub>1,2</sub>	S49		T* beam T*		v 3% v		v 3% v	v 1:10 v	v 1:1 v	v
	e <sub>3</sub> Large t	S53							v 1:10 v	v 1:1 v	
	π <sup>1</sup> )										R
FE 58	u <sub>3</sub> 2 m HBC						T	P19	π <sup>+</sup> 16 K <sup>+</sup> 10	v	v
	m <sub>6</sub> 2 m HBC		T v v	v v	v v	v v				v	v
FSE 58	a <sub>9</sub> μ Δ	E58	T								T T
SE 58	e <sub>2</sub> L.A.	S38	v								v v
FE 48			v* v*		v* v*	v* v*	v* v*				
	ν Neutrino								T* T*	T* T*	T* T*

\* = 2 shifts per week

T = setting up of beam or experiment

v = production runs

EASTER SHUT-DOWN