PLLTF FY04thru06 29Feb04.xls

	A	B	C	D	E	F	G
1							
2	costs are burdened K$	FY04 labor	FY04 material	FY05 labor	FY05 material	FY06 labor	FY06 material
4	**BNL**						
5	Evaluation of System Configurations:						
6	baseband	2	3	5	3		
7	250MHz	2	3	5	3		
8	2.5GHz	2		5	3		
9	superconducting pickup	2					
10	SPS test Jun 04						
11	hardware and software	15	10				
12	travel	10					
13	SPS test Sep 04						
14	hardware and software	7	7				
15	travel	10					
16	Problem-specific activities:						
17	chirp, multi-carrier, synch satellites	1		2			
18	multiple systems	1		3			
19	damper noise floor	1		5	3	3	3
20	signal-to-noise	1		5	3	3	3
21	stability and loop tuning	1		5	3	3	3
22	dynamic range	1		5	3	3	3
23	phase stability	1	1	5	3	3	3
24	emittance growth	1		5		3	
25	tune crossing	1		2		2	
26	autoexcitation	1		3		2	
27	modeling	1		3	3	3	3
28	beam simulator	1	1	3	3	3	3
29	chromaticity measurement	1		3		3	
30	coupling measurement	1		3		3	
31	beam experiments considerations	1		3		3	
32	Tests with beam at RHIC						
33	hardware and software			20	20	25	30
34	Preferred System Configuration:						
35	specification			5		10	
36	hardware and software prototypes					50	72
37	testing with beam					40	20
38	Travel	5		15		15	
39							
40	**BNL totals**	70	25	110	50	177	143
41		**FY04 total**	**95**	**FY05 total**	**160**	**FY06 total**	**320**
42							
43	**FNAL**						
44	baseband pickup study	7		5			
45	system configuration study (BB, 245MHz, 2GHz)	7		20		10	
46	synchrotron satellite study	4		5			
47	pulsed excitation study	4		5			
48	multiple carrier study	4		5			
49	damper noise floor study	4		5			
50	further unspecified studies	5		25		140	
51	travel	10		10		10	
52							
53	**FNAL totals**	45	0	80	0	160	0
54		**FY04 total**	**45**	**FY05 total**	**80**	**FY06 total**	**160**
55							
56							
57	**total by FY, BNL + FNAL**		**140**		**240**		**480**
58	**'base' budget**		**138**		**160**		**370**
59							