

Run Program last updated February 9, 1999 11:39 pm

BEAM CONDITIONS

<i>Parameter</i>	<i>Thy Value</i>
INJECTOR ENERGY	47.247 MeV
<LINAC> ENERGY	419.969 MeV
ARC7 ENERGY	2987.030 MeV
4 PASS HALL C ENERGY	3406.999 MeV
BEAM CURRENT	3 uA CW
BEAM POLARIZATION	70%
TARGET POLARIZATION	7.882%
TARGET THICKNESS	4um Iron
TARGET ANALYZING POWER	-7/9

ACCELERATOR SETUP

<i>task</i>	<i>hours</i>	<i>Note</i>
Setup beam to Hall C	2	First task
Orbit Ramp Signal Checkout	1	Parasitic to Moller Setup
Software Setup & Checkout	2	Parasitic to Moller Setup
Set Orbit Bumps	3	Before/After Moller ???

MOLLER SETUP

<i>task</i>	<i>hours</i>
Setup beam to Moller	1
Detector Checkout	1
Electronics Checkout	2
Quadrupole Optimization	2
Collimator Optimization	2
Overhead	4

TOTALS

<i>TASK</i>	<i>TASK HOURS</i>	<i>TOTAL HOURS</i>	<i>% Uptime 4 DAYS</i>	<i>% Uptime 5 DAYS</i>
SETUP MOLLER	12.00	12.00		
SETUP ACCEL	9.00	21.00		
90,90 DEG AMPLITUDE TEST	13.50	34.50		
90 DEG CUT	8.50	43.00		
STANDARDING @ 90,90	4.00	47.00		
45 DEG CUT NECESSARY	12.50	59.50		
STANDARDING @ 90,90	4.00	63.50	66.5%	52.9%
45 DEG CUT ADDITIONAL	25.50	89.00		
STANDARDING @ 90,90	4.00	93.00	96.9%	77.5%

THETA=90, PHI=90, AMPLITUDE VARIATION (1.18e-4 error bar)

*4mm	T	P	W	S1	S2	Injctr	% diff	Thy	Cor't	15m	RUN	TOT
1.00	90	90	90	48	42	.75	20%	2.84	3.12	13	3.25	4.00
0.00	90	90	90	48	42	.50	n/a	-----	-----	13	3.25	3.75
>=1.50	90	90	90	48	42	.50	13.3%	-----	-----	13	3.25	3.75

THETA=90 CUT (delta=20% Amplitude is >=1.5 * 4mm)

T	P	W	S1	S2	Injctr	Thy	Cor'td	15m	RUN	TOT
90	90	90	48	42	.75	1.26	1.39	6	1.5	0
90	0	58.5	0	0	.50	0.85	0.94	4	1.0	1.5
90	135	-111.7	-48	-1.6	0.5	2.52	2.77	12	3.0	3.5
90	45	68.32	48	1.6	0.5	2.52	2.77	12	3.0	3.5

POLARIZATION STABILITY CHECK

T	P	W	S1	S2	Injctr	Thy	Cor't	15m	RUN	TOT
90	90	90	48	42	.75					4.00

THETA=45 CUT NECESSARY (delta=20% Amplitude is >=1.5 * 4mm)

T	P	W	S1	S2	Injctr	Thy	Cor'td	15m	RUN	TOT
45	90	-52.9	48	35.5	0.75	2.52	2.77	12	3.00	3.75
45	0	13.5	0	0	.50	0.23	0.25	1	0.25	0.75
45	270	-52.9	48	14.4	.75	2.52	2.77	12	3.00	3.75
45	180	-76.5	0	0	.50	3.25	3.58	15	3.75	4.25

POLARIZATION STABILITY CHECK

T	P	W	S1	S2	Injctr	Thy	Cor'td	15m	RUN	TOT
90	90	90	48	42	.75					4.00

THETA=45 CUT ADDITIONAL (delta=20% Amplitude is >=1.5 * 4mm)

T	P	W	S1	S2	Injctr	Thy	Cor't	15m	RUN	TOT
45	45	30.2	48	35.5	0.75	5.05	5.56	23	5.75	6.50
45	315	30.2	-48	-35.5	0.75	5.05	5.56	23	5.75	6.50
45	135	-70.0	-32.1	0	0.50	5.05	5.56	23	5.75	6.25
45	225	-70.0	32.1	0	0.50	5.05	5.56	23	5.75	6.25

POLARIZATION STABILITY CHECK

T	P	W	S1	S2	Injctr	Thy	Cor't	15m	RUN	TOT
90	90	90	48	42	.75					4.00