

Sheet1

lattice'	2085mev_20081107'			
particle type '	3			
Circumference (m)'	768.44			
Harmonic number'	1281			
Energy (GeV)'	2.09			
X tune'	14.62			
Y tune'	9.64			
x-emittance (nm)'	2.6			
y-emittance (nm)'	0.05			
energy spread (%)'	0.08			
momentum compaction'	0.01			
synchrotron tune'	0.06			
gamma'	4080.23			
Brho (T-m)'	6.95			
rev. freq (Hz)'	390402.86			
sync. freq (Hz)'	21472.16			
slip factor'	0.01			
bunch length (mm)'	12.23			
element type'	length(m)	field (T, T/m)	phot-xwt(/m)	
All dipoles'	474.64		0.09	0.53
Drifts'	178.91		0	0.25
Wigglers'	24.54		10.33	0.65
Quads'	90.35		3.4	0.34
Solenoids'	0		0	0
Regular dipoles'	378.03		0.08	0.48
Hard bends'	25.9		0.22	1.29
Soft bends'	52.58		0.12	0.54
B3+B48'	11.78		0.05	0.63
B47A'	6.35		0.2	0.75
RFA name	RFA element name	RFA database name	RFA type	
RFA00W	Seg 1W	SEG_RFAQ1WG3	Segmented	
RFA02W1	WigA ConA	WIGA_RFAQ1WG1	Cu Wiggler	
RFA02W2	WigA ConB	WIGA_RFAQ1WG1	Cu Wiggler	
RFA02W3	WigA ConC	WIGA_RFAQ1WG1	Cu Wiggler	
RFA02W4	WigB ConC	WIGB_RFAQ1WG2	TiN Wiggler	
RFA02W5	WigB ConB	WIGB_RFAQ1WG2	TiN Wiggler	
RFA02W6	WigB ConA	WIGB_RFAQ1WG2	TiN Wiggler	
RFA01W	Seg 2W	SEG_RFAQ1WG3	Segmented	
RFA11W	Fringe B12WS	THINRFA13WG2	Dipole	
RFA12W	Dipole B12WN	THINRFA13WG2	Dipole	
RFA13W	Seg 14BWS	SEG_RFA13WG1	Segmented	
RFA14W	Seg 14BWN	SEG_RFA13WG1	Segmented	
SLAC_RFA_2				
SLAC_RFA_3				
SLAC_RFA_4				
SLAC_RFA_5				
RFA14E	Seg 14BES		Segmented	
RFA13E	Seg 14BEN		Segmented	
RFA02E	Seg 2E	SEG_RFAQ1WG3	Segmented	
RFA01E				

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phot-ywt(/m)	phot-avgwt(/m)	phot(/m)	bx(m)	by(m)	dispx(m)	sigx(mm)
0.52	0.53	0.56	14.06	18.56	0.83	0.7
0.3	0.28	0.28	16.16	17.68	0.94	0.79
0.72	0.69	0.74	7.17	16.35	0.22	0.22
0.34	0.34	0.37	17.5	19.8	0.85	0.72
0	0	0	0	0	0	0
0.43	0.46	0.49	14.8	19.16	0.84	0.71
2.04	1.69	1.58	12.37	14.57	0.69	0.59
0.54	0.54	0.54	11.51	14.98	1.03	0.86
0.54	0.57	0.56	9.7	21.73	0.02	0.16
0.75	0.75	0.75	6.67	22.77	0.38	0.33
lattice element type	lattice element name	Field (T,T/m)	s(m)	phot (/m)	bx (m)	by(m)
DRIFT	D003	0	0.74	1.8	3.64	11.31
WIGGLER	WIG1_02W	13.21	4.38	1.47	5.51	18.92
WIGGLER	WIG1_02W	13.21	4.48	2.26	5.73	18.84
WIGGLER	WIG1_02W	13.21	4.63	2.16	6.09	18.69
WIGGLER	WIG2_02W	13.21	6.11	1.02	10.59	16.24
WIGGLER	WIG2_02W	13.21	6.21	0.99	10.96	16
WIGGLER	WIG2_02W	13.21	6.36	1.64	11.53	15.63
DRIFT	D008	0	7.18	2.09	14.97	13.35
DRIFT	D054	0	67.57	0.26	5.09	43.12
SBEND	B12W	0.08	74.02	0.49	12.62	11.38
DRIFT	D065	0	88.11	0.11	13.87	10.42
DRIFT	D065	0	89.79	0.06	21.49	6.57
QUADRUPOLE	Q49W	0	381.71	0.04	12.22	16.65
DRIFT	D221	0	382.45	0.03	6.41	20.38
DRIFT	D222	0	383.18	0.03	2.62	24.48
DRIFT	D228	0	388.03	0.01	26.93	11.21
QUADRUPOLE	SK_Q14E	0	680.48	0.08	13.35	10.89
DRIFT	D382	0	682.17	0.04	7.8	16.59
DRIFT	D436	0	761.2	0.17	15.3	13.14
DRIFT	D441	0	767.7	1.32	3.63	11.34

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sigy(mm)	bx-wt(m ²)	by-wt(m ²)	bavg-wt(m ²)	bavg-wt frac(%)
0.03	6675.71	8806.93	7741.32	60.75
0.03	2891.09	3163.79	3027.44	23.76
0.03	175.9	401.04	288.47	2.26
0.03	1580.77	1788.73	1684.75	13.22
0	0	0	0	0
0.03	5593.7	7241.5	6417.6	50.37
0.03	320.27	377.42	348.85	2.74
0.03	605.13	787.43	696.28	5.46
0.03	114.25	255.97	185.11	1.45
0.03	42.36	144.61	93.49	0.73
disp _x (m)	sig _x (mm)	sig _y (mm)		
0	0.1	0.02		
0	0.12	0.03		
0	0.12	0.03		
0	0.13	0.03		
0	0.17	0.03		
0	0.17	0.03		
0	0.17	0.03		
0	0.17	0.03		
0	0.2	0.03		
0.1	0.14	0.05		
0	0.18	0.02		
1.36	1.13	0.02		
1.77	1.46	0.02		
-0.09	0.19	0.03		
-0.09	0.15	0.03		
-0.08	0.11	0.03		
-0.1	0.28	0.02		
1.33	1.1	0.02		
0.92	0.76	0.03		
0	0.2	0.03		
0	0.1	0.02		