NSLS LINAC PARAMETERS AS OF DECEMBER 2007

Injection Energy	100 keV
Final Energy	120 MeV
Number of Sections	3
Number of Klystrons	3
Frequency	2856 MHz

NSLS BOOSTER PARAMETERS

Booster Injection Energy	120 MeV
Booster Extraction Energy	736 MeV
Circumference	28.35 m
Number of Superperiods	4
Dipole Bend Radius	1.91 m
Nominal Horizontal Tune	2.42
Nominal Vertical Tune	1.37
Maximum Horizontal Beta Function	8.63 m
Minimum Horizontal Beta Function	1.01 m
Maximum Vertical Beta Function	5.26 m
Minimum Vertical Beta Function	1.73 m
Maximum Dispersion Function	1.21 m
Minimum Dispersion Function	0.41 m
Momentum Compaction	0.106
RF Frequency	52.88 MHz
RF Peak Voltage	25 kV
Momentum Acceptance	±0.0025

BOOSTER MAGNETIC ELEMENTS (FIELDS AT 750 MEV)

Name	Type	Quantity	B (kG)	B' (kG/m)	B" (kG/m)	Effective Length (m)
BB	Dipole	8	13.099	-7.97	-125	1.5
Q1	Quadrupole	4		68.82		0.3
Q2	Quadrupole	4		93.60		0.3
SF	Sextupole	4			1223.7	0.2