as of December 2002

NSLS Linac Parameters

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

NSLS Booster Parameters*

Injection Energy	120 MeV
Extraction Energy	750 MeV
Circumference	28.35 m
Number of Superperiods	4
Dipole Bending Radius	1.91 m
Nominal Horizontal Tune	2.42
Nominal Vertical Tune	1.37
Maximum Horizontal Beta	8.63 m
Minimum Horizontal Beta	1.01 m
Maximum Vertical Beta	5.26 m
Minimum Vertical Beta	1.73 m
Maximum Dispersion	1.21 m
Minimum Dispersion	0.41 m
Momentum Compaction	0.106
Peak RF Voltage	25 KV
RF Frequency	52.88 MHz
Horizontal Acceptance	1.66E-04 m-rad
Vertical Acceptance	6.11E-05 m-rad
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

*Data from J. Galayda, et al., I.E.E.E. Trans. Nucl. Sci. NS-26 (1979), 3839.