Name of Machine Rossendorf U-120 Cyclotron	Date Oct. 1, 1995
Institution Research Center Rossendorf Address D-01314 Dresden, P.O.B. 51 01 19, Germa	any Fax (0351)260 - 3690 E-MAIL GURAT@fz-rossendorf.d
Tel (0351)260 - 3275	Fax (0351)260 - 3690 E-MAIL GURAT@fz-rossendorf.d Reported by: H. Guratzsch
HISTORY	ION SOURCE(S)
MILESTONE DATES:	Type Intensity @ $ε_n = βγε$ Ion Species
Design Model Tests	(mA) (π mm mrad)
Construction First Beam 1958 DESIGN/CONSTRUCTION BY:	(-)
in houseother NIIEFA St.Petersburg	(b) (c)
COST: Accelerator Facility	(d)
FUNDED BY:	INJECTION SYSTEM
STATUS	Efficiency %
STAFF: Machine	
Scientists Engineers	EXTRACTION SYSTEM
Technicians	Electrostatic Deflector Efficiency %
Scientists2/ Engineers/	CHARACTERISTIC BEAMS
Technicians/ Students/	Current (part μA)
BUDGET: Machine Funded by	
Research Funded by	(a) H_2^+
TIME DISTRIBUTION:	(c)d
Basic Research (in house/external)	(4) ~ 7 20
Maintenance % Development %	Secondary Particles E (MeV) part/sec
MACNIT	(a)
MAGNET POLE PARAMETERS: Classical Cyclotron	(b)
Diameter120	
HILL PARAMETERS: Gap (min) cm B _{max} T	For μA of MeV/u ions
(@ AT) Gap (max) cm B _{min} T	
VALLEY PARAMETERS: Gap (min) cm B _{max} T	
(@ AT) Gap (max) cm B _{min} T	
AVERAGE FIELD: $\langle B \rangle_{min}$ 1.0 T $\langle B \rangle_{max}$ 1.4 T	
NUMBER OF SECTORS: compact/separated/	Target Stations:
sector angle deg. spiral (max) deg.	MAGNETIC SPECTROMETERS:
FIELD TRIMMING: Trim Coils6	OTHER FACILITIES:
Harmonic Coils	Isatope Praduation Thin Layer Activation
CURRENT: Main Coils 550 Amps Stability 10 4	Neutron Therapy
CURRENT: Main Coils	
Stored Energy (cryogenic)	
WEIGHT: Iron120.t	(a)(b)
Focusing Limit E/A =	
	PLAN VIEW OF FACILITY, COMMENTS
ACCELERATION SYSTEM	
FUNDAMENTAL ACCELERATION:	
Description: Mo. of Gaps/turn dE/dn(max) MeV/q	
Voltage (max)	
Freq 8-16 MHz Power in(max)0.1 MW	
Stability: Phase Voltage	
OTHER CAVITIES (Flattopping or otherwise):	
Description:	
Region of Influence: R_{min}	
No. of Gaps/turndE/dn(max) MeV/q	
Voltage (max)	
Stability: Phase Voltage Voltage	
VACUUM SYSTEM	
VACUUM SYSTEM OPERATING PRESSURE: 10 ⁻³ Pa	
40-3 5	