ENTRY NO. /5 NAME OF MACHINE CP-42 H Cyclotron					
THE CVCT CHECK! CODDODATION					
ADDRESS 950 Gilman St., Berkeley, California,	U.S.A.				
TEL (415) 524-8670 TELEX 910-366-7116					
IN CHARGEG.Q. Hendry REPORTED BY .T	', Y , T , . KUO			•••••••	
HISTORY AND STATUS					
DESIGN, date Mid. 1977. Model tests	INJECTION SYSTEM				
ENG DESIGN, date Mid. 1977	3.110113.110113.110113.110113.110113.110113.110113.110113.110113.110113.110113.110113.110113.110113.110113.110				
CONSTRUCTION, date .Mid., 1978.	EXTRACTION SYSTEM				
FIRST BEAM, date (or goal) July, 1979	Charge Exchange Foil FACILITIES FOR RESEARCH				
MAJOR ALTERATIONS					
COST, ACCELERATOR	SHIELDED AREA, fixed				
COST, FACILITY, total	STATIONS served at same time, max				
FUNDED BY	MAG SPECTROGRAPH, type				
ACCELERATOR STAFF, OPERATION AND DEVELOPMENT	COMPUTER model				
SCIENTISTS ENGINEERS	OTHER FACILITIES				
TECHNICIANS CRAFTS					
GRAD STUDENTS involved during year					
OPERATED BY Research staff or Operators OPERATION hr/wk. On target hr/wk	PARTICLE		(MeV)	CURREN	Τ (ρΔ)
TIME DISTR. in house % Outside %	FAITTICLL	Goal	Achieved	Internal	External
BUDGET, op & dev	Н	11-42	11-42		200 p
FUNDED BY					
RESEARCH STAFF, not included above					
USERS, in house outside					
GRAD STUDENTS involved during year	SECONDARY		(par	- *	
FUNDED BY					
MAGNET	BEAM PROPE				
POLE FACE, diameter (compact) 120 cm, R extraction53 cm		MEASURED		CONDITIONS	_
R injection cm				4 of .42 MeV	
GAP, min 5. cm, Field 24 kG min 12. cm, Field 16 kG at 92,400				of MeV	
AVERAGE FIELD at R ext	EXTRACT eff RESOL ΔE/E.		• • •	A of MeV A of MeV	
B max/ < B >				, or wev	10115
NUMBER OF SECTORS (compact3) Spiral, max .64 deg	EMITTANCE (10axial) (				
separated					
SECTOR ANGLE (SSC) deg	BASIC NUCLEAR PHYSICS SOLID STATES PHYSICS				
TRIMMING COILS	BIOMEDICAL APPLICAT ISOTOPE PRODUCTIONS .(*)				
CONDUCTOR, material and type Hollow Copper			*Var	cied	
STORED ENERGY (cryogenic)	REFERENCES/NOTES				
trimming coils max, kW; current stability	1) G.O. Hendry et.al. Proceedings of 9th Int.Conf. on				
WEIGHT: Fe35 tons; coils3	Cyc. and their Appl., 125 (1981).				
COOLING system Recirculated Water					
ION ENERGY (bending limit) $E/A = \dots 42 \dots q^2/a^2 \text{ MEV/amu}$	PLAN VI	EW OF FACIL	ITY, COM	MENTS, ETC	
(focusing limit) E/A = q/a MeV/amu					
ACCELERATION SYSTEM DEES, number2					
BEAM APERTURE 1.8 cm; DC Bias 1.5 kV					
TUNED by, coarse fine Capacitors, Trimmer					
RF to $26.8$ mHz, stable $\pm$ $0.5$ kHz					
Orb F					
HARMONICS, RF/Orb F, used					
STABILITY, (pk-pk noise)/(pk RF voit)					
ENERGY GAIN, max					
RF PHASE, stable to $\pm$					
RF POWEP input, max					
FREQUENCY MODULATION, rate/s					
modulator, typebeam pulse, width					
OPERATING PRESSURE					
FOMFS, No. Type, Size					
Four 10-inches Diff. Pumps					
ION SOURCES					

**ENTRY NO.** 75