

ENTRY NO. CU63 Date  
 Cyclotron Model BC 168 Nippon Telegraph & Telephone Co.  
 Institution Interdisciplinary Research Laboratories  
 Address Tokai, Ibaraki, 319-11 Japan  
 Tel +81 29 287 7586 Telex  
 Fax +81 29 287 7875 E-MAIL  
 In Charge: T. Shigematsu Reported by: K. Shikano

**HISTORY**

MILESTONE DATES:  
 Installation Oct. 1984 First Beam Oct. 1984  
 DESIGN/CONSTRUCTION BY: NTT Interdisciplinary Res. Labs.  
 COST: Accelerator Facility  
 FUNDED BY:

**STATUS**

STAFF: Operators Technicians  
 BUDGET: Machine Funded by  
 TIME DISTRIBUTION: (e.g. basic research, isotope production, maintenance, etc.)  
 (a) CPAA 50 %  
 (b) RBS, PIXE 40 %  
 (c) Micro-beam 10 %  
 (d) %  
 (e) %

**CHARACTERISTIC BEAMS**

Accelerated Ions	E/A (MeV/u)	Current (part $\mu$ A)	
		Internal	External
(a) p, d	1.8 - 16, 3.6 - 8		50, 20
(b) $^3\text{He}$ , $^4\text{He}$	5.4 - 21, 6.6 - 16		10, 10

1994  $\mu$ A-hours on target:

**FACILITIES**

SHIELDED AREA: Fixed: 7.0 m<sup>2</sup> Moveable m<sup>2</sup>  
 Target Stations: No. Served At Same Time:  
 OTHER FACILITIES:

**REFERENCES/NOTES**

- (a) H. Yonezawa, 11th Cyclotron Conf. 1986, p646
- (b)

**PLAN VIEW OF FACILITY, COMMENTS**

ENTRY NO. CU64 Date  
 Cyclotron Model JSW 1710  
 Institution NRI (National Research Inst. Metals)  
 Address 1-2-1, Sengen, Tsukuba, Ibaraki, 305, JAPAN  
 Tel (0298) 51-6311 Telex  
 Fax (0298) 51-4556 EMAIL  
 In Charge: J. Nagakawa Reported by: J. Nagakawa

**HISTORY**

MILESTONE DATES:  
 Installation April 85 - June 86 First Beam June 1986  
 DESIGN/CONSTRUCTION BY: JSW/JSW  
 COST: Accelerator \$1,750,000 Facility \$750,000  
 FUNDED BY: Science and Technology Agency, JPN Gov.

**STATUS**

STAFF: Operators 0 Technicians 0  
 BUDGET: Machine \$200,000 Funded by STA  
 TIME DISTRIBUTION: (e.g. basic research, isotope production, maintenance, etc.)  
 (a) Basic Research (Materials Science) 80 %  
 (b) Maintenance 20 %  
 (c) %  
 (d) %  
 (e) %

**CHARACTERISTIC BEAMS**

Accelerated Ions	E/A (MeV/u)	Current (part $\mu$ A)	
		Internal	External
(a) p/d	17/10	50 p/d	50 p/d
(b) He-3/He-4	26/20	20	20

1991  $\mu$ A-hours on target: 1.75 x 10e3

**FACILITIES**

SHIELDED AREA: Fixed: 90 m<sup>2</sup> Moveable: 0 m<sup>2</sup>  
 Target Stations: No. Served At Same Time: 1  
 OTHER FACILITIES:

**REFERENCES/NOTES**

- (a) Proc. 11th Int'l. Conf. on Cyclotron, 1986, p.571
- (b) (H. Shiraiishi et al.)

**PLAN VIEW OF FACILITY, COMMENTS**

