

Entry: **CU46** Date: June, 1998
 Machine Name: NIRS-Chiba, Isochronous Cy.
 Cyclotron Model: AVF930
 Institution: National Institute of Radiological Sciences
 Address: 9-1, Anagawa, 4-chome, Inage-ku, Chiba, 263-8555 Japan
 Tel: 043(251)2111 Web:
 Fax: 043-251-1840 Web:
 E-mail: honma_t@nirs.go.jp
 In Charge: S. Yamada

HISTORY

Installation: 1972-1973 First Beam: Dec, 1973
 Design/Construction by: CGR-Mev (Thomson-C6F)
 Funded by: The Science and Technology Agency

USES

a) Critical trial of proton therapy	8.8	%
b) Radio-isotope production	20.2	%
c) Development of particle detectors	49.9	%
d) Radiobiological studies	4.3	%
e) Maintenance	16.8	%
Total time:	100.0	h/year

CHARACTERISTIC BEAMS

Ions/energy/current:

a) P	6-80 MeV	20 μA
b) α	24-100 MeV	10 μA
c) ¹² C	70-150 MeV	0.1 μA

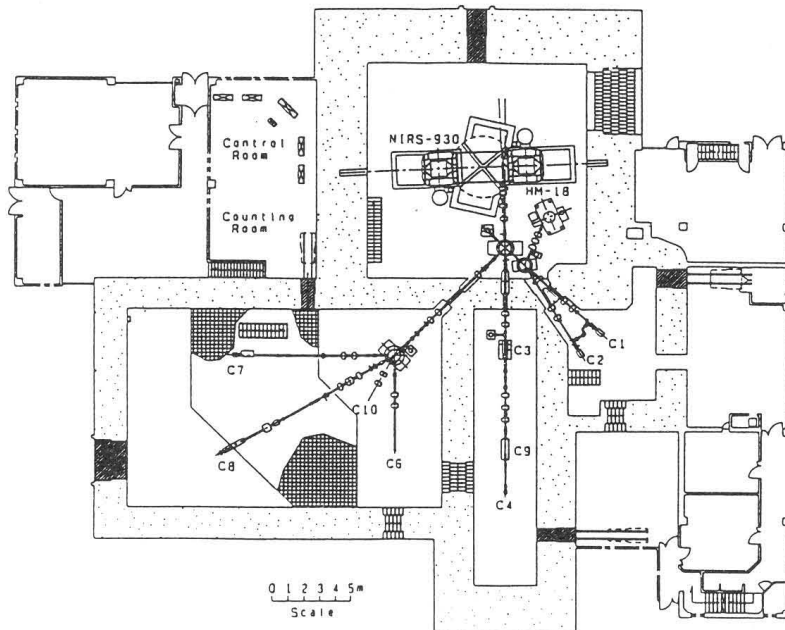
EXPERIMENTAL FACILITIES

- a) Cyclotron Radiotheraies Facility
- b) Radio pharmaceuticals Production Facility
- c) General irradiation Facility

REFERENCES

- a) H.Ogawa et al., IEEE Trans. NS-26, No2 (1978) 1998
- b) T.Yamada et al. Proc. 11th Int. Conf. On Cyclo. 61
- c) T.Yamada et al. Proc. 12th Int. Conf. On cyclo. 106

PLAN VIEW OF FACILITY



Entry: **CU47** Date: June, 1998
 Machine Name: CYPRIS HM-18
 Cyclotron Model: CYPRIS HM-18
 Institution: National Institute of Radiological Sciences
 Address: 9-1, Anagawa, 4-chome, Inage-ku, Chiba, 263-8555 Japan
 Tel: 043(251)2111
 Fax: 043-251-1840 Web:
 E-mail: honma_t@nirs.go.jp
 In Charge: S. Yamada

HISTORY

Installation: 1993-1994 First Beam: Mar, 1994
 Design/Construction by: Sumitomo Heavy Industries, Ltd.
 Funded by: The Science and Technology Agency

USES

a) Isotope Production	85	%
b) Maintenance	15	%
		%
		%
		%
Total time:	68.18	h/year

CHARACTERISTIC BEAMS

Ions/energy/current:

a) P	18 MeV	70 μA
b) D	10 MeV	50 μA

EXPERIMENTAL FACILITIES

- a) Cyclotron Radiotheraies Facility

REFERENCES

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PLAN VIEW OF FACILITY