

Entry: **CU30** Date: **3.6.1998**  
 Machine Name: .....  
 Cyclotron Model: **MC - 35**  
 Institution: **MHH, Nuclear Medicine**  
 Address: **D-30625 Hannover**  
 Tel: **++49/511/532-3085 or 5606**  
 Fax: **-2315** Web: .....  
 E-mail: **Helmeke.Hans-J. MH-Hannover.de**  
 In Charge: **Dr. H.-J. Helmeke**

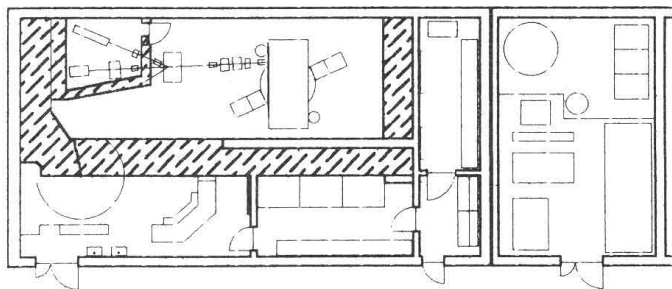
**HISTORY**  
 Installation: **1976** First Beam: **21.1.1977**  
 Design/Construction by: **Scanditronix**  
 Funded by: .....

**USES**  
 PET radionuclides ..... 90 %  
 other radionuclides ..... 5 %  
 research - targets ..... 2.5 %  
 research - radiochemistry ..... 2.5 %  
 Total time: on target up to 360 h/year

**CHARACTERISTIC BEAMS**  
 Ions/energy/current:  
 protons/7.5 - 35/65  
 deuterons/3.8 - 18/65  
 He-4/7.5 - 35/30 He-3/5.6 - 47/30

**EXPERIMENTAL FACILITIES**  
 solid target system

**REFERENCES**  
 H.-J. Helmeke et al  
 Home made routinely used targets for the  
 production of PET radionuclides  
 7th WTTC, Heidelberg, 1977  
**PLAN VIEW OF FACILITY**



**COMMENTS**  
 .....  
 .....

ENTRY NO. **CU31** Date .....  
 Cyclotron Model **BC 1710**  
 Institution **Institut für Nuklearchemie, KFA Jülich**  
 Address **KFA Jülich, D-52425 Jülich, Germany**  
 Tel **+49.2461.61.4141** Telex **833556 KFA D**  
 Fax **+49.2461.61.2535**  
 In Charge: **Dr. S.M. Qaim** Reported by: **Dr. S.M. Qaim**  
 E-MAIL: **1CH107 ZAM001.ZAM KFA-JUELICH.de**

**HISTORY**  
**MILESTONE DATES:**  
 Installation **January 1987** First Beam **April 1987**  
 DESIGN/CONSTRUCTION BY: **Japan Steel Works**  
 COST: Accelerator ..... Facility .....  
 FUNDED BY: **KFA Jülich**

**STATUS**  
 STAFF: Operators **2** Technicians .....  
 BUDGET: Machine ..... Funded by **KFA Jülich**  
 TIME DISTRIBUTION: (e.g. basic research, isotope production, maintenance, etc.)  
 (a) **Isotope production** ..... 100 %  
 (b) ..... %  
 (c) ..... %  
 (d) ..... %  
 (e) ..... %

**CHARACTERISTIC BEAMS**

Accelerated Ions	E/A (MeV/u)	Current (part $\mu$ A)	
		Internal	External
(a) p	17	/	40
(b) d	10	/	30

1994  $\mu$ A-hours on target: **7820**

**FACILITIES**  
 SHIELDED AREA: Fixed: **ca. 60** m<sup>2</sup> Moveable ..... m<sup>2</sup>  
 Target Stations: **1** No. Served At Same Time: **1**  
**OTHER FACILITIES:**  
 Hot cells, radiochemistry laboratories, automated  
 radiopharmaceutical production units

**REFERENCES/NOTES**  
 (a) Production of PET radiopharmaceuticals  
 (b) .....

**PLAN VIEW OF FACILITY, COMMENTS**