



Best 15p Cyclotron

Type Of Cyclotron

- Negative hydrogen ion (H-)
- External ion source, multi-cusp 5 mA
- Unshielded, local-shielded or self-shielded
- Simultaneous dual beam extraction (multiple foil extraction cartridge)
- Minimum 4 external targets

Beam Current

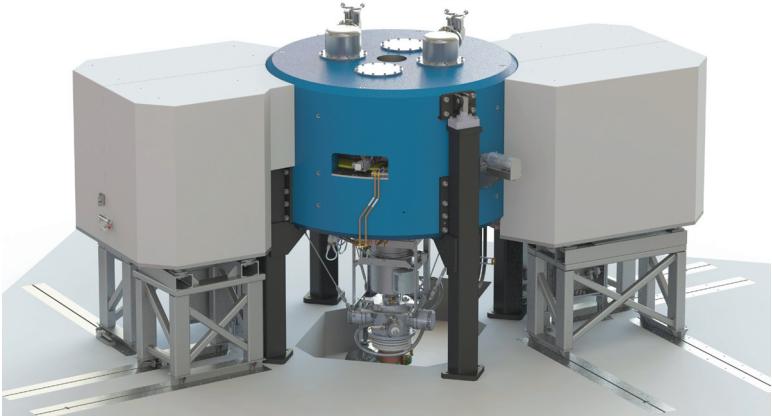
- 400 µA extracted beam current
- Higher currents available upon request

Beam Energy

- 15 MeV fixed energy extraction

Magnet

Magnet coil ~107 kAT
 Magnet weight ~14 tons
 Geometry 4 sectors

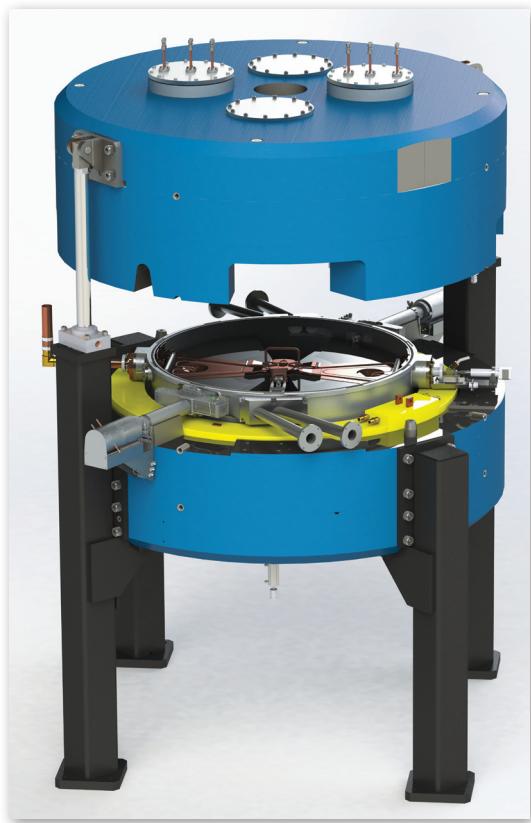


RF System

Resonator 2 Dees
 Dee voltage 40 kV
 RF frequency 75 MHz, 4th harmonic
 Power required 8 kW (nominal)
 Energy gain per turn 160 keV

Vacuum System

Base pressure..... <2 x 10⁻⁷ Torr
 Operating pressure <1 x 10⁻⁶ Torr
 Pumps Cryogenic pump system



Automated Control System

Computer System Standard PC, Windows-based OS
 Controllers Siemens Industrial PLC Modules
 User Console Color monitor
 Interface Graphical user interface
 Networking Standard thin-wire Ethernet hardware

External Production Targets

The cyclotron is supplied with two ¹⁸F production targets complete with loading and routing to the production hot cell. Targets for ¹⁸F, ¹¹C, ¹³N, ¹⁵O, ⁶⁴Cu, ¹²⁴I, ¹⁰³Pd and ^{99m}Tc are available.

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