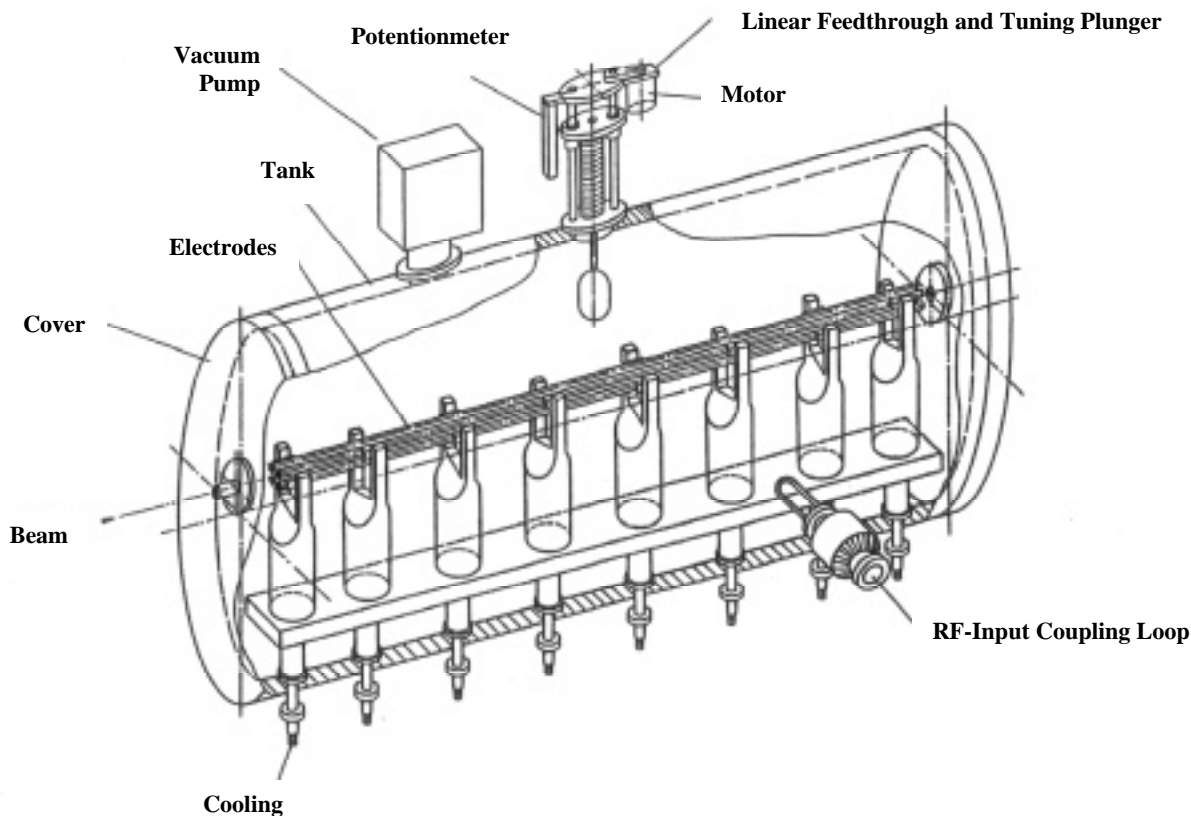


RFQ - Accelerator Structures



(Design: A. Schempp)

Various RFQ structures of the 4-rod type, as outlined above, have been designed and delivered by PET in collaboration with Dr. A. Schempp from the Institute of Applied Physics, Frankfurt Germany. Specifications of previously delivered RFQ's are delineated on the next page.

In addition, the subsequent services can be offered:

- Design and manufacturing of Rf-systems.
- Design and manufacturing of vacuum systems.
- Delivery of a control system via PC or VME for the systems mentioned. The control system includes all necessary hard- and software.

PRINCETON SCIENTIFIC CORP.

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IPNL - LYON

Injection energy: 10 keV/u
Final energy: 100 keV/u
Maximum mass: 50
Frequency: 80-110MHz
Tuning: inductive
Length: 2.5m
Diameter: 50 cm
Rf-power: 80 kW, pulse
Electrode voltage: 100 kV, pulse
Energy spread: $\pm 1.1\%$
Current limit: 5 mA (A=50)

HLI - GSI

Injection energy: 2.5 keV/u
Final energy: 300 keV/u
Maximum mass: 238
Frequency: 108.48 MHz
Tuning: inductive
Length: 3 m
Diameter: 35cm
Rf-power: 100 kW, pulse
Electrode voltage: 80 kV, pulse
Energy spread: $\pm 1\%$
Current limit: 10 mA

CSNSM- ORSAY

Injection energy: 2 MeV/u
Final energy: 200 keV/u
deceleration
Maximum mass: 1 (p)
Frequency: 202.5 MHz
Tuning: inductive
Length: 1.5 m
Diameter: 25 cm
Rf-power: 200 kW, pulse
Electrode voltage: 115 kV, pulse
Energy spread: $\pm 0.1\%$

PREMA - MAINZ

Injection energy: 2.25 keV/u
Final energy: 91 keV/u
Maximum mass: 11
Frequency: 81.36MHz
Tuning: inductive
Length: 1.2m
Diameter: 50 cm
Rf-power: 25 kW cw
Electrode voltage: 80 kV cw
Energy spread: $\pm 2\%$
Current limit: 20 mA (A=11)

DESY- HAMBURG

Injection energy: 18 keV/u
Final energy: 750 keV/u
Maximum mass: 1 (H-)
Frequency: 202.56 MHz
Tuning: inductive
Length: 1.2 m
Diameter: 25 cm
Rf-power: 80 kW, pulse
Electrode voltage: 70 kV, pulse
Energy spread: $\pm 1.5\%$
Current limit: 45 mA

LNS-SACLAY

Injection energy: 12.5 keV/u
Final energy: 200 keV/u
q/A - range: $0.25 < q/A < 0.5$
Frequency: 200 MHz
Tuning: inductive
Length: 1.4 m
Diameter: 25 cm
Rf-power: 200 kW, pulse
Electrode voltage: 100 kV, pulse
Energy spread: $\pm 1.75\%$
Current limit: 20 mA