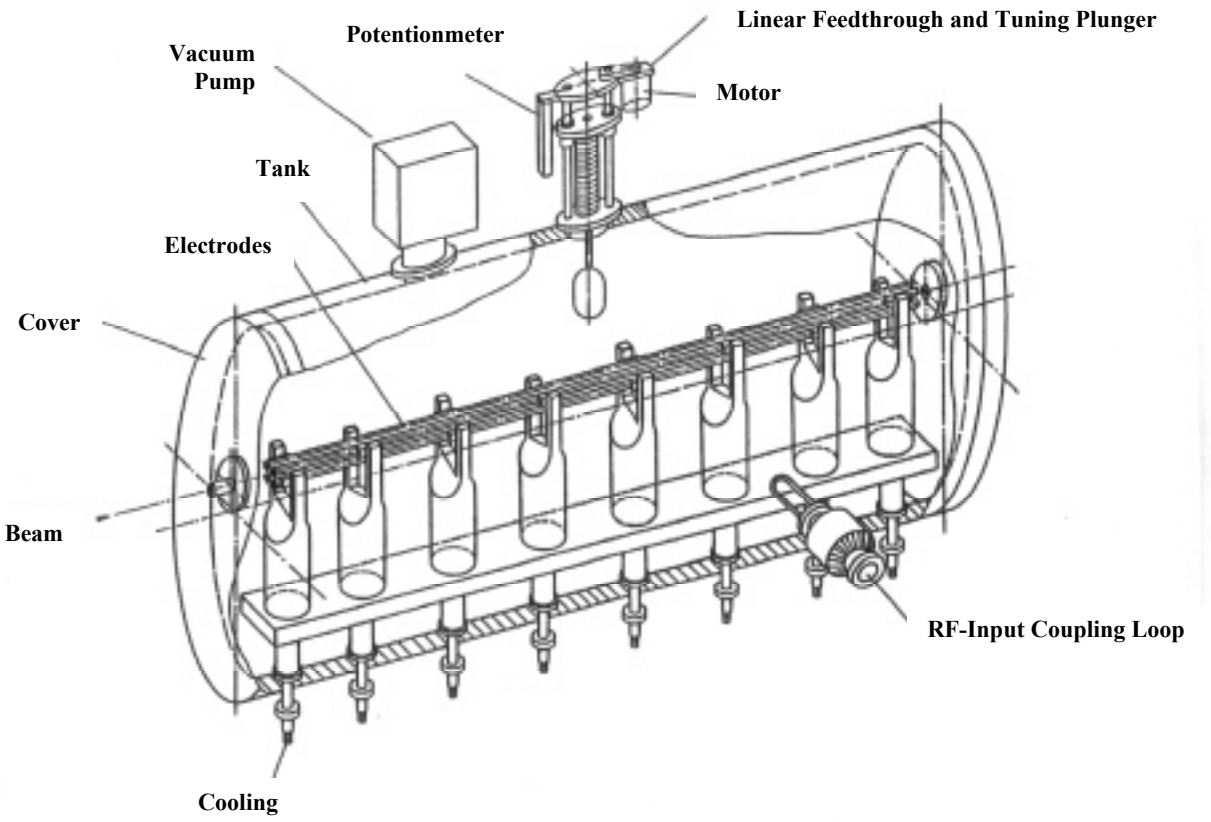
# RFQ - Accelerator Structures




**(Design: A. Schempp)**

Various RFQ structures of the 4-rod type, as outlined above.
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.

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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: | ± 1.1% |
| Current limit: | S mA (A=50) |

***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: | ±2% |
| Current limit: | 20 mA (A=11) |

***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: | ± 1% |
| Current limit: | 10 mA |

***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: | ± 1.5% |
| Current limit: | 45 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: | ± 0.1% |

***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: | ± 1.75% |
| Current limit: | 20 mA |