

The RFQ Section of the New Unilac Prestripper Accelerator at GSI, K. KASPAR, E. MALWITZ, U. RATZINGER, R. TIEDE, GSI Darmstadt; S. MINAEV, MEPS Moscow - To fill the Heavy Ion Synchrotron SIS up to its space charge limit the 1.4 MeV/u prestripper section of the UNILAC has to be rebuilt [1], [2]. The design is made for $I = 16.5$ emA at a mass to charge ratio of 65 and an injection energy of 2.2 keV/u into the RFQ and of 120 keV/u into the IH-DTL. The new type of RFQ structure operating in the H_{110} - mode will be presented. The rf properties, results from MAFIA calculations and the mechanical design as well as the mini-vane geometry will be discussed. Additionally the matching of the beam to the IH-DTL by use of a short quadrupole doublet and a 11 cell adapter-RFQ will be described.

- [1] U. Ratzinger, High Current IH Structures, Proc. of the EPAC 94, Vol. 1, p. 264-266.
- [2] Beam Intensity Upgrade of the GSI Accelerator Facility, GSI-95-05 Report.