

Rf-Properties of the VE-RFQ-Injector for the ISL Cyclotron, O. ENGELS, A. SCHEMPP, Institut Für Angewandte Physik, Johann Wolfgang Goethe-Universität, Frankfurt Am Main, Germany, H. HOMEYER, W. PELZER, Hahn Meitner-Institut, Berlin, Germany - The separated sector cyclotron at the ISL (Ionen-Strahl-Labor, Berlin) will get a new injector. The RFQ-part of the injector consists of two closely coupled VE- (Variable Energy) RFQs with an input energy range of 15 to 30 keV/n and an output energy range of 90 to 360 keV/n. For direct injection into the cyclotron a small energy spread and a duty factor of 100% are needed, which is difficult for RFQs. Calculated and measured rf-properties of the RFQs will be discussed.