Beam Measurements at the ECR-RFQ System for Materials Research with Highly Charged Ions\*, P. BELLER, A. SCHEMPP, U. BESSLER, O. ENGELS, J. MADLUNG, H. VORMANN, Institut Für Angewandte Physik; K. STIEBING, H. STREITZ, L. SCHMIDT, A. SCHREMMER, K. BETHGE, H. SCHMIDT-BÖCKING, Institut Für Kernphysik, Johann Wolfgang Goethe-Universität, Frankfurt Am Main, Germany - The RFQ accelerator for the production of highly charged heavy ions, installed at the Institut für Kernphysik, consists of a 14 GHz ECR ion source in combination with an energy variable RFQ post-accelerator. It is designed to deliver highly charged ions in the energy range between 1 keV/u (the ECRIS beam) and 100-200 keV/u with the VE-RFQ. Beam measurements have been done with Ar <sup>8+</sup> beams. The status of the project and results of beam measurements will be presented.

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