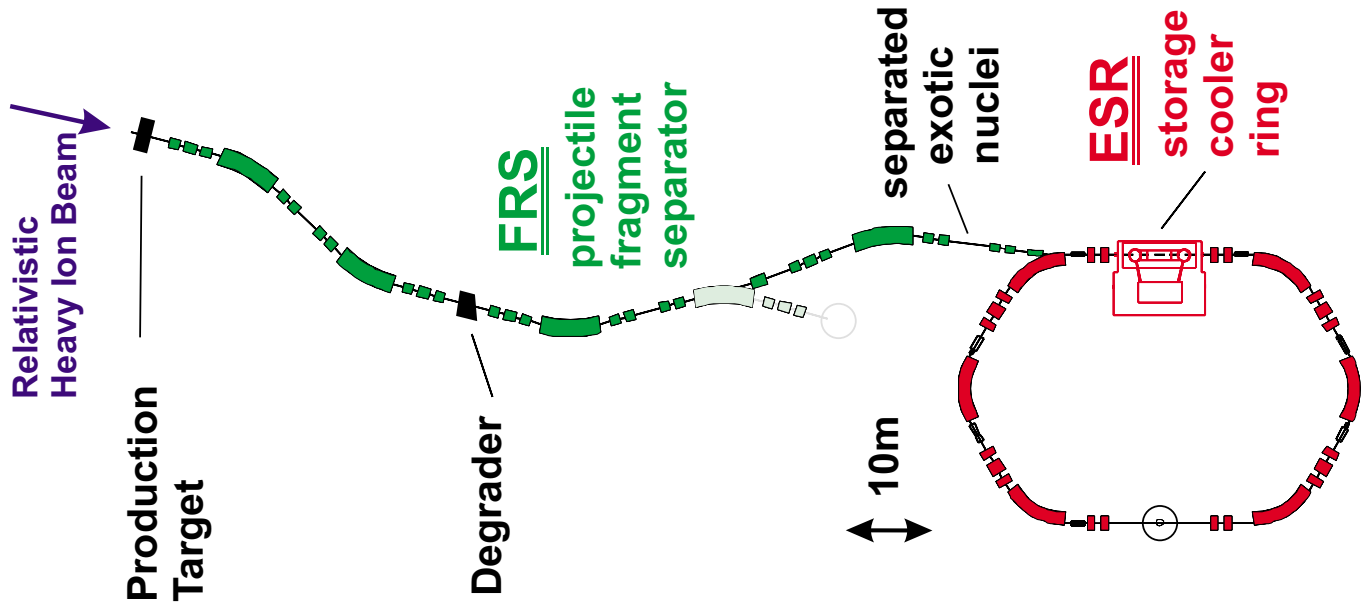

Recent Mass and Lifetime measurements at FRS-ESR

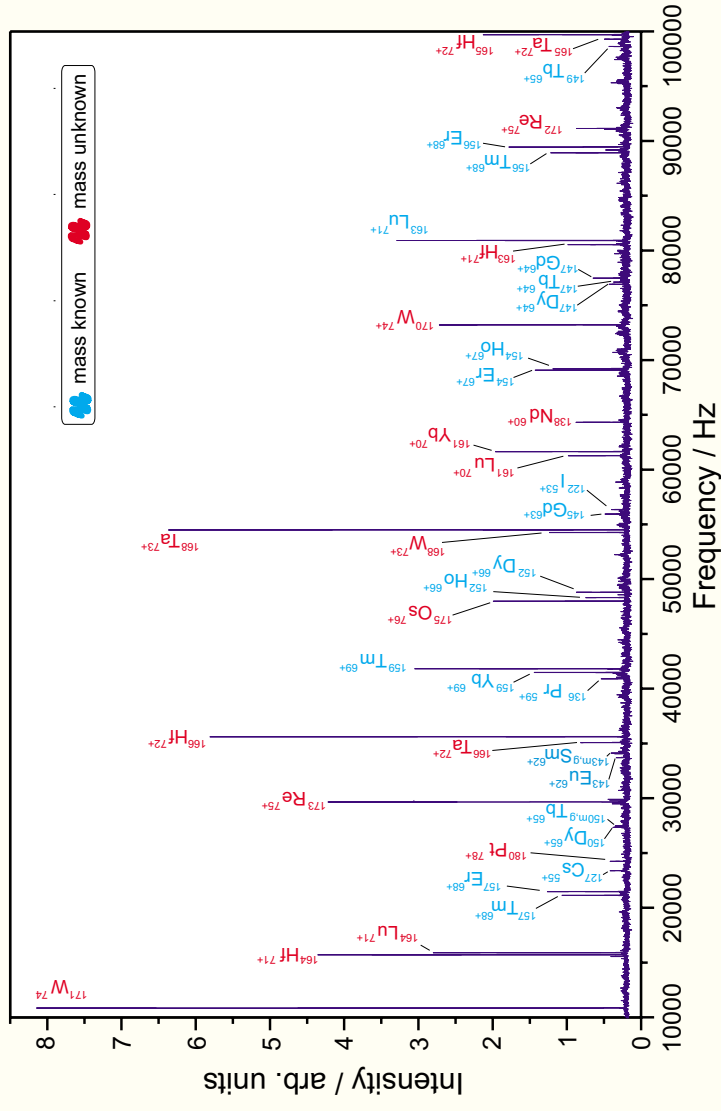
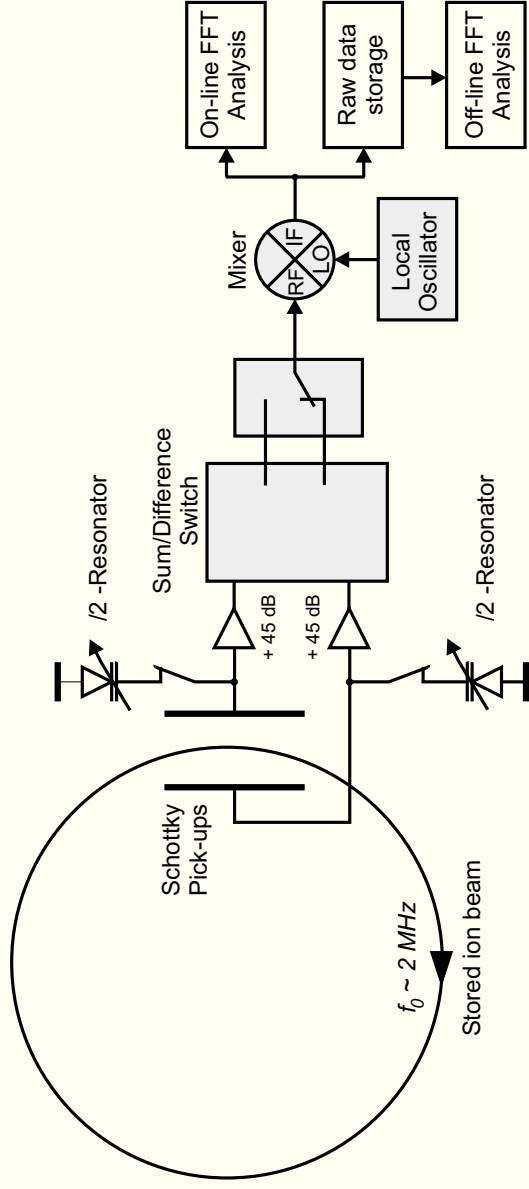
F. Attallah, K. Beckert, P. Beller, F. Bosch, D. Boutin,
H. Eickhoff, T. Faestermann, M. Falch, B. Franczak,
B. Franzke, H. Geissel, M. Hausmann, M. Hellström,
E. Kaza, Th. Kerscher, O. Klepper, H.-J. Kluge,
R. Koyama, C. Kozhuharov, K.-L. Kratz,
Yu.A. Litvinov, K.E.G. Löbner, M. Matos, L. Maier,
G. Münzenberg, F. Nolden, Yu.N. Novikov,
T. Ohtsubo, A. Ostrowski, A. Ozawa, Z. Patyk,
B. Pfeiffer, M. Portillo, W. Quint, T. Radon,
C. Scheidenberger, V. Shishkin, J. Stadlmann,
M. Steck, K. Sümmerer, T. Suzuki,
M.B. Trzhakovskaya, D.J. Viera, S. Watanabe,
H. Weick, M. Winkler, H. Wollnik, T. Yamaguchi



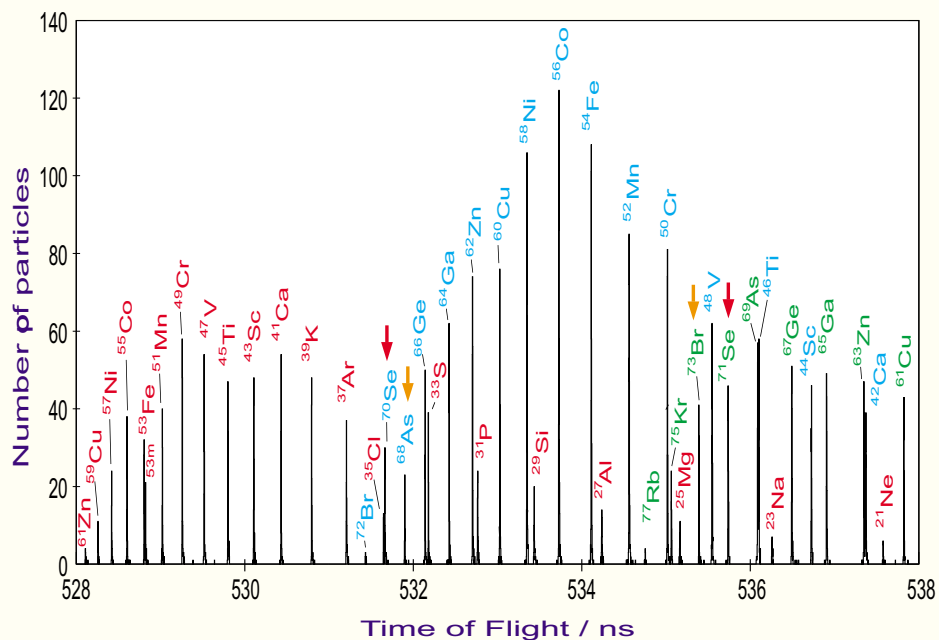
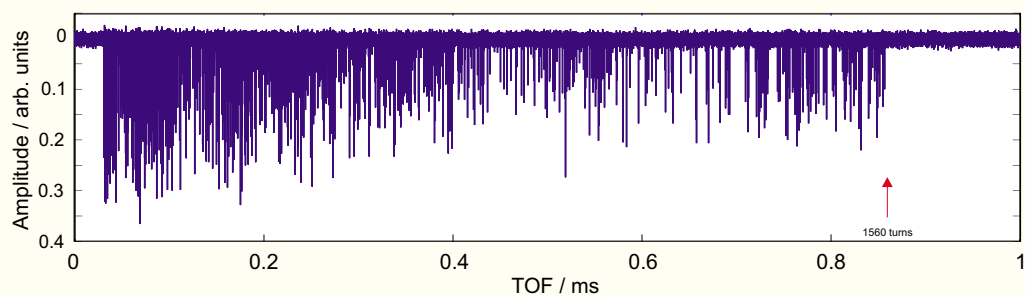
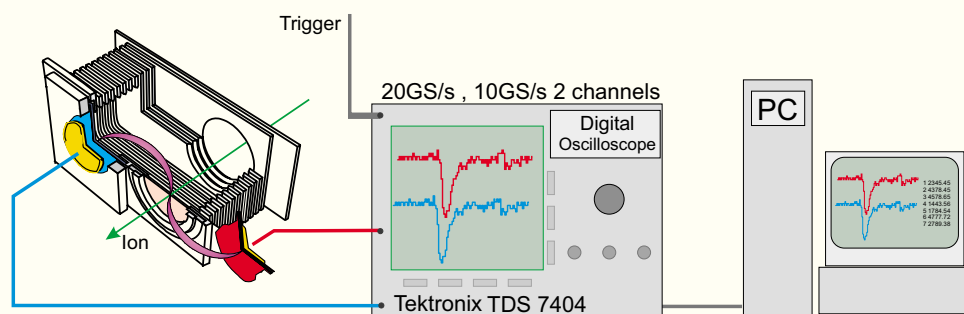
Schottky Mass Spectrometry



$$\frac{f}{f_t} = -\frac{1}{2} \frac{(m/q)}{m/q_t} + \frac{v}{v_t} \left(1 - \frac{v^2}{c^2}\right)$$

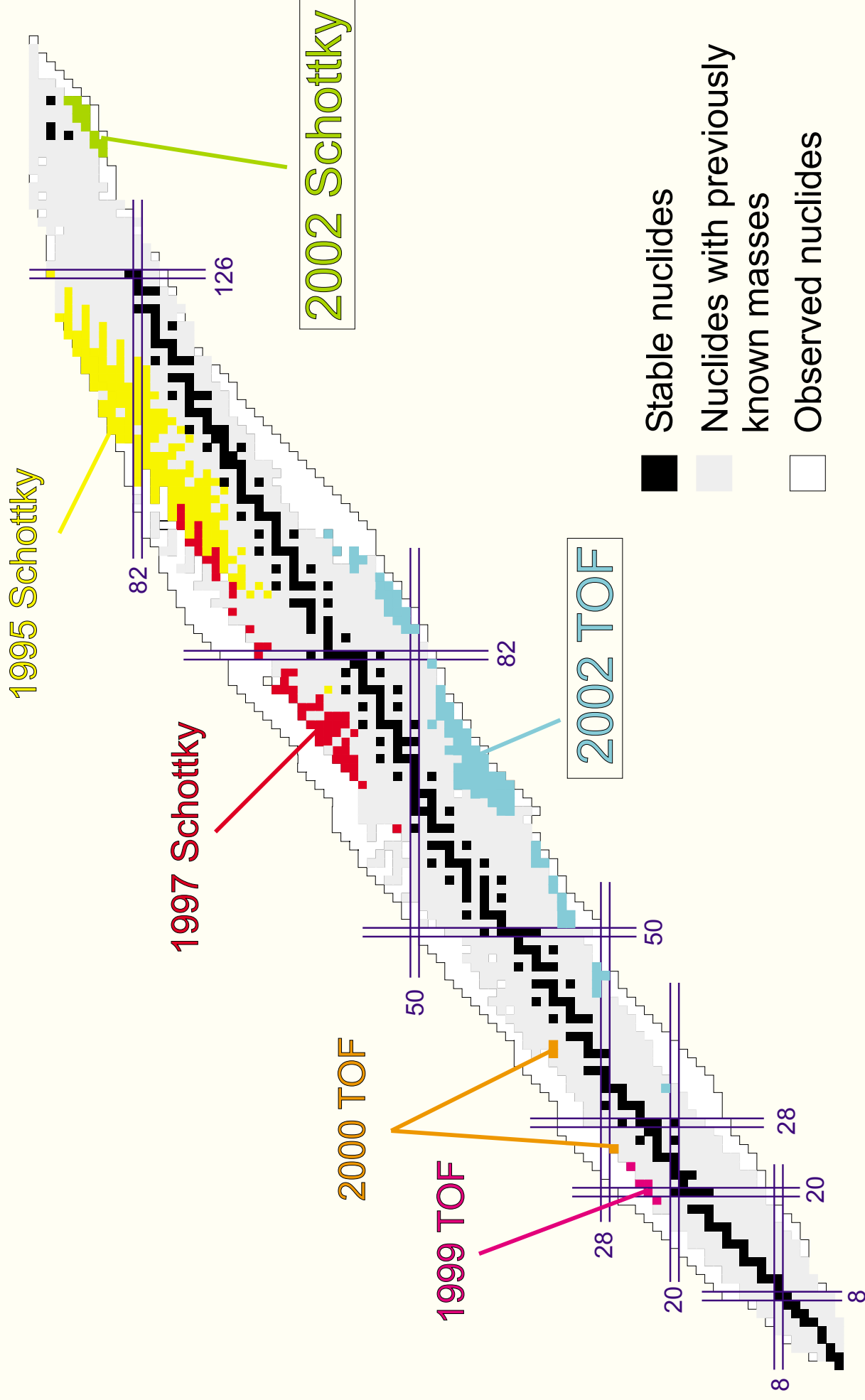


Isochronous Mass Spectrometry

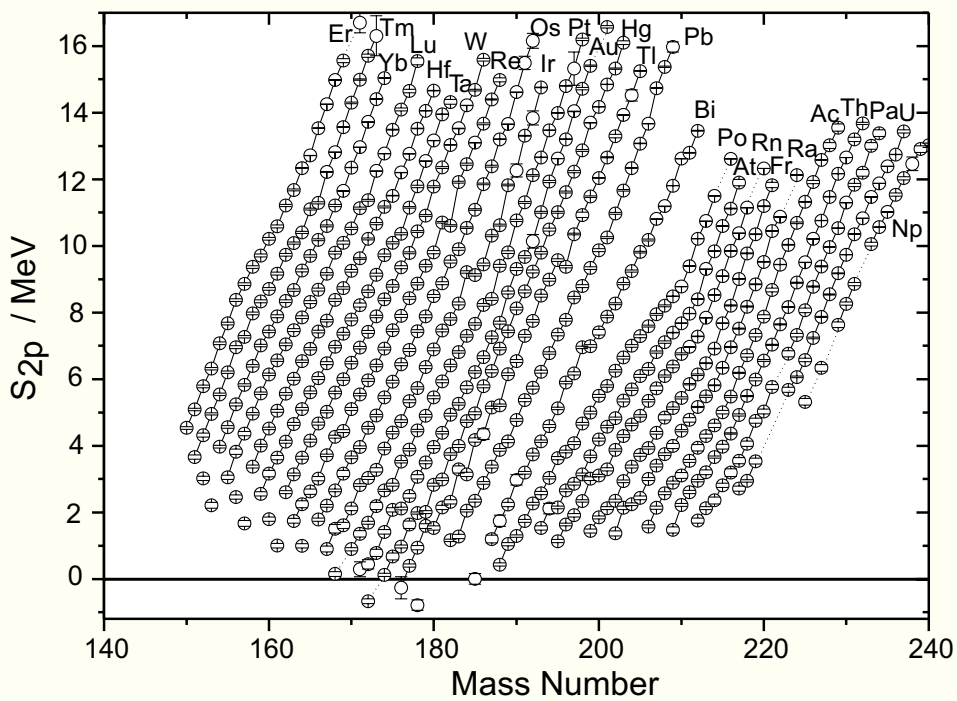
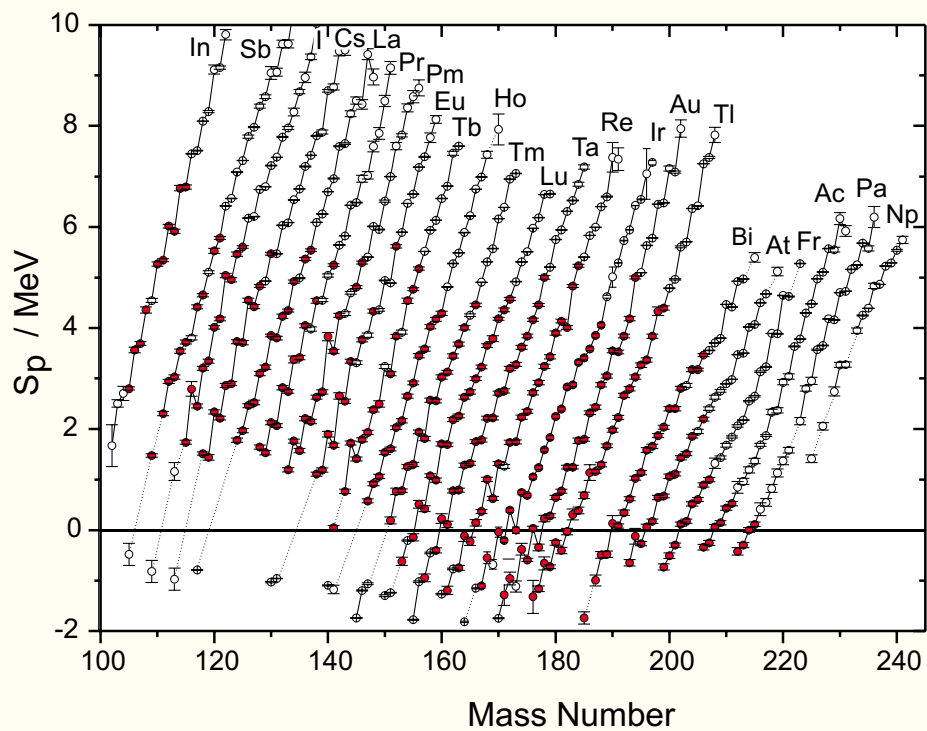


New Masses Measured at GSI

GSI Darmstadt ♦ JGU Mainz ♦ JLU Giessen ♦ LANL Los-Alamos ♦ LMU Munchen ♦ NU Niigata
PNPI Gatchina ♦ RIKEN Saitama ♦ SINP Warsaw ♦ SU St.-Petersburg



One- and Two-Proton Separation Energies



Resolving of low lying Isomeric states in Schottky spectra

