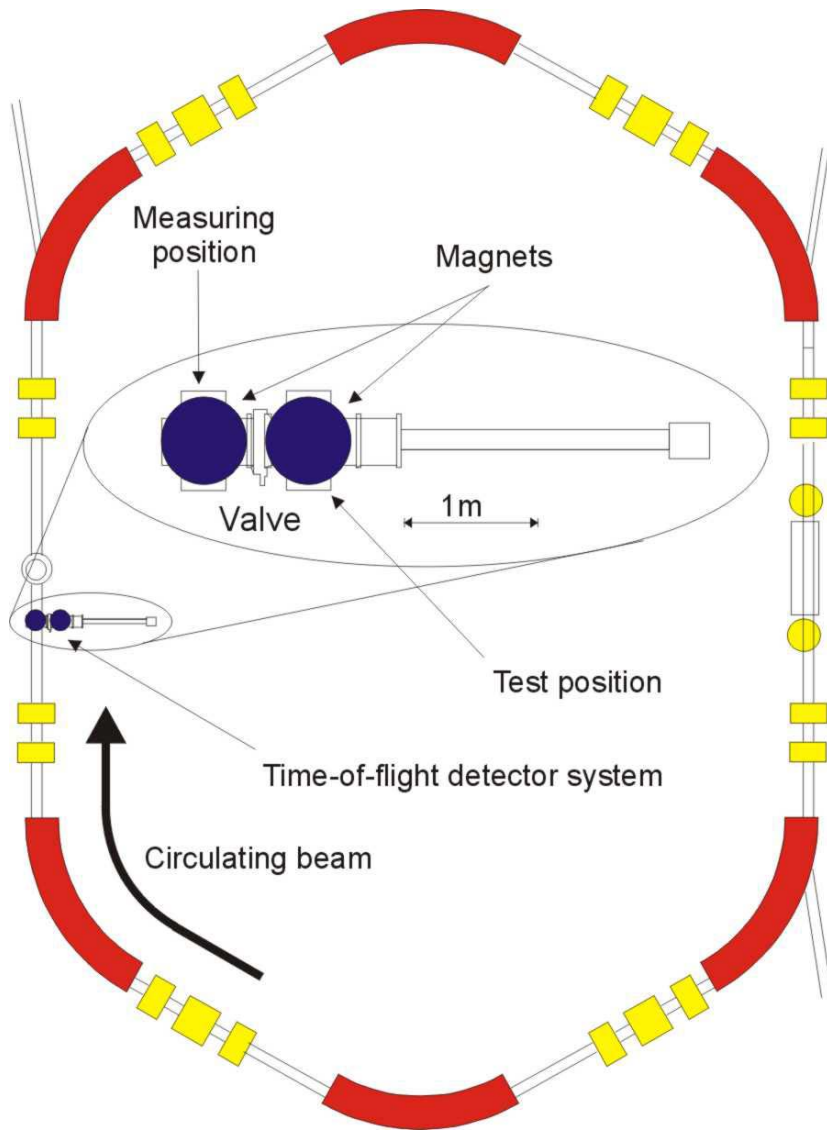
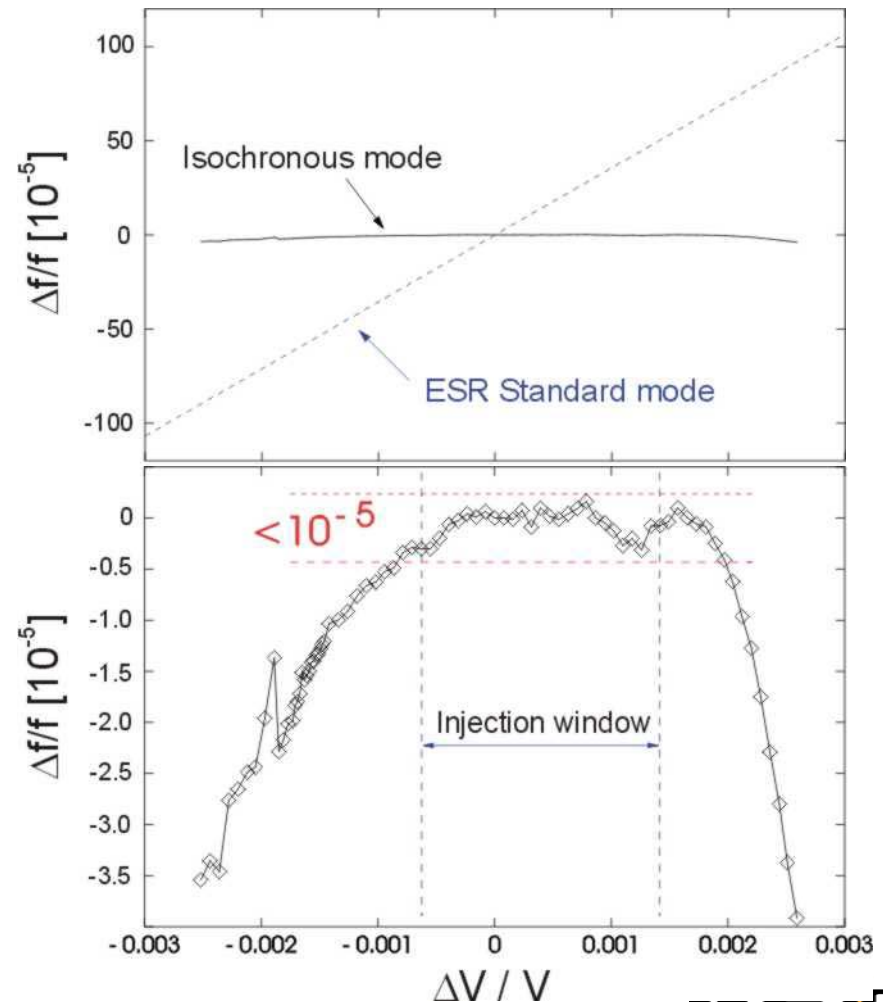


Isochronous Mass Spectrometry (IMS)

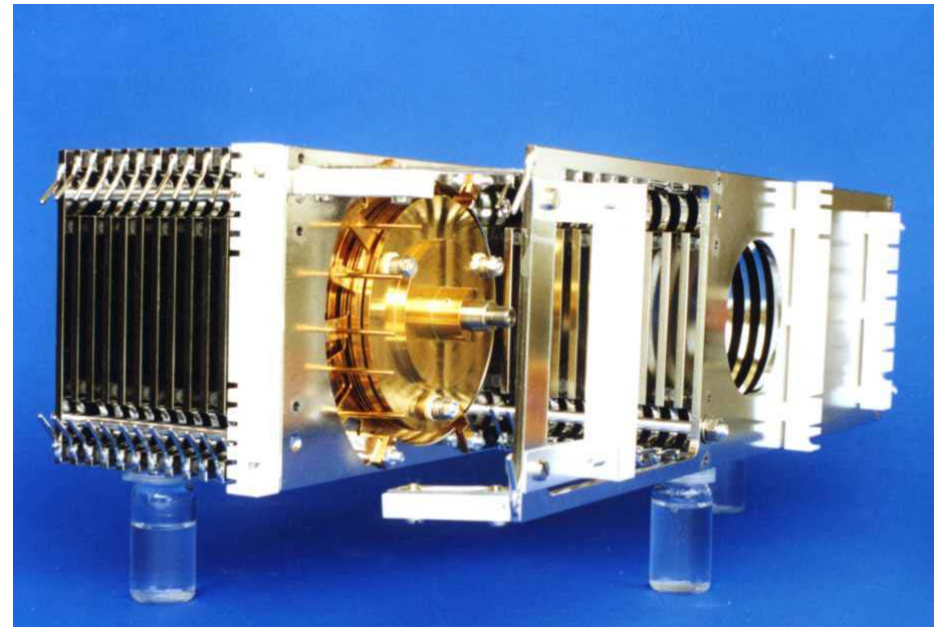
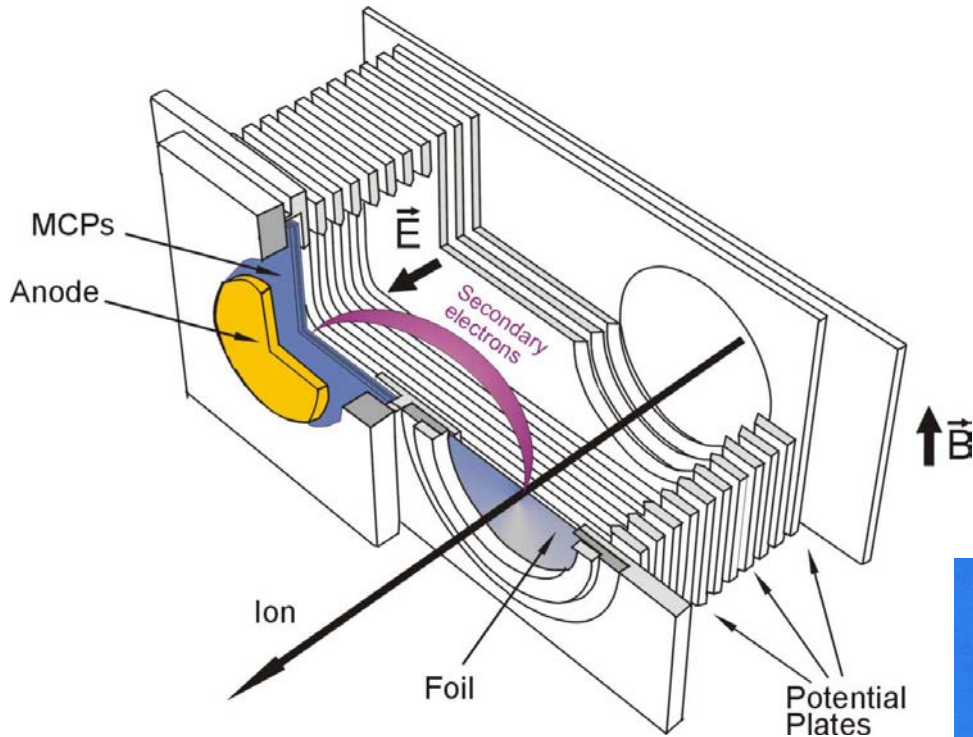


$$\frac{\Delta f}{f} = -\frac{\Delta t}{t} = -\frac{1}{\gamma_t^2} \frac{\Delta(m/q)}{(m/q)} - \left(\frac{\gamma^2}{\gamma_t^2} - 1 \right) \frac{\Delta v}{v}$$

$\gamma \rightarrow \gamma_t$



Time-of-Flight detector for the IMS

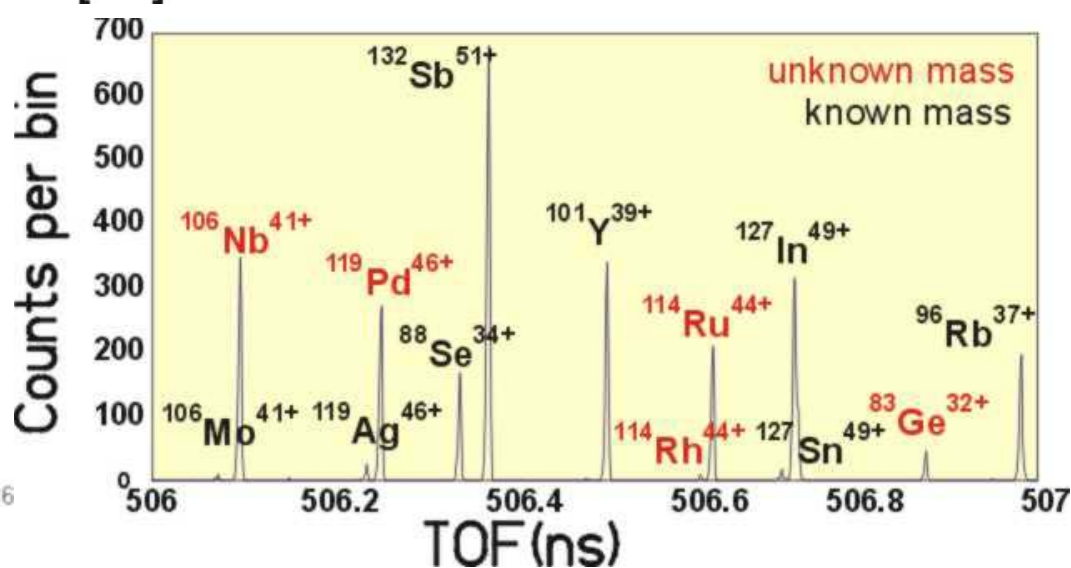
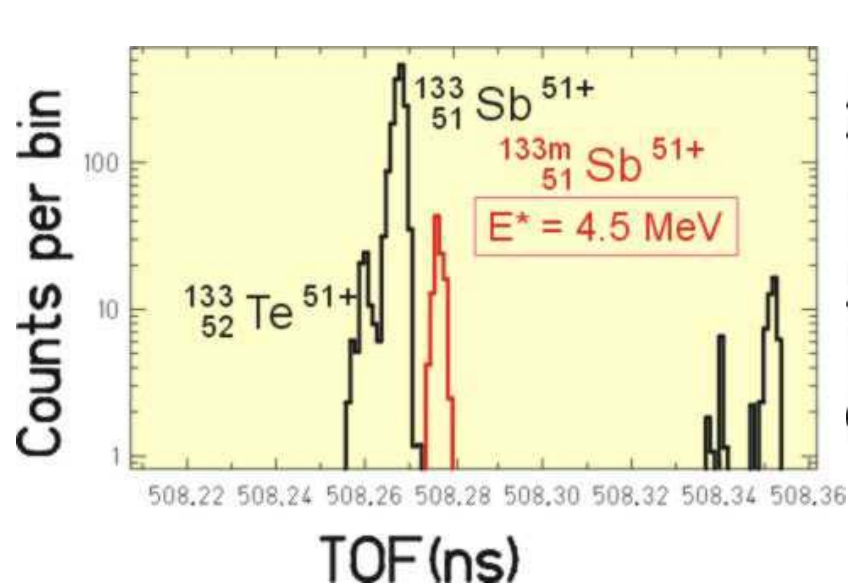
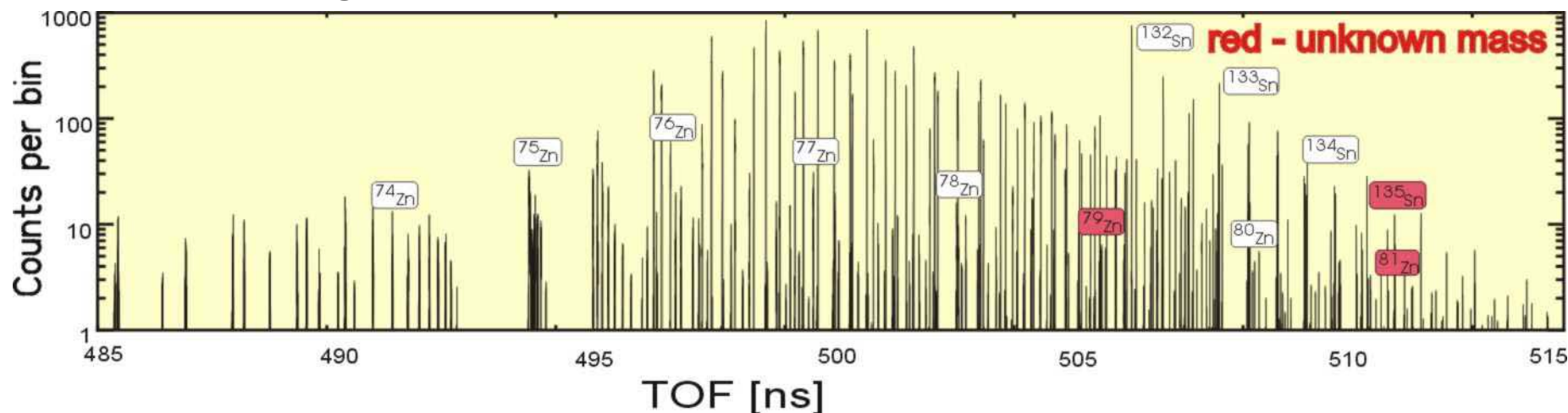


Time-of-Flight Spectra

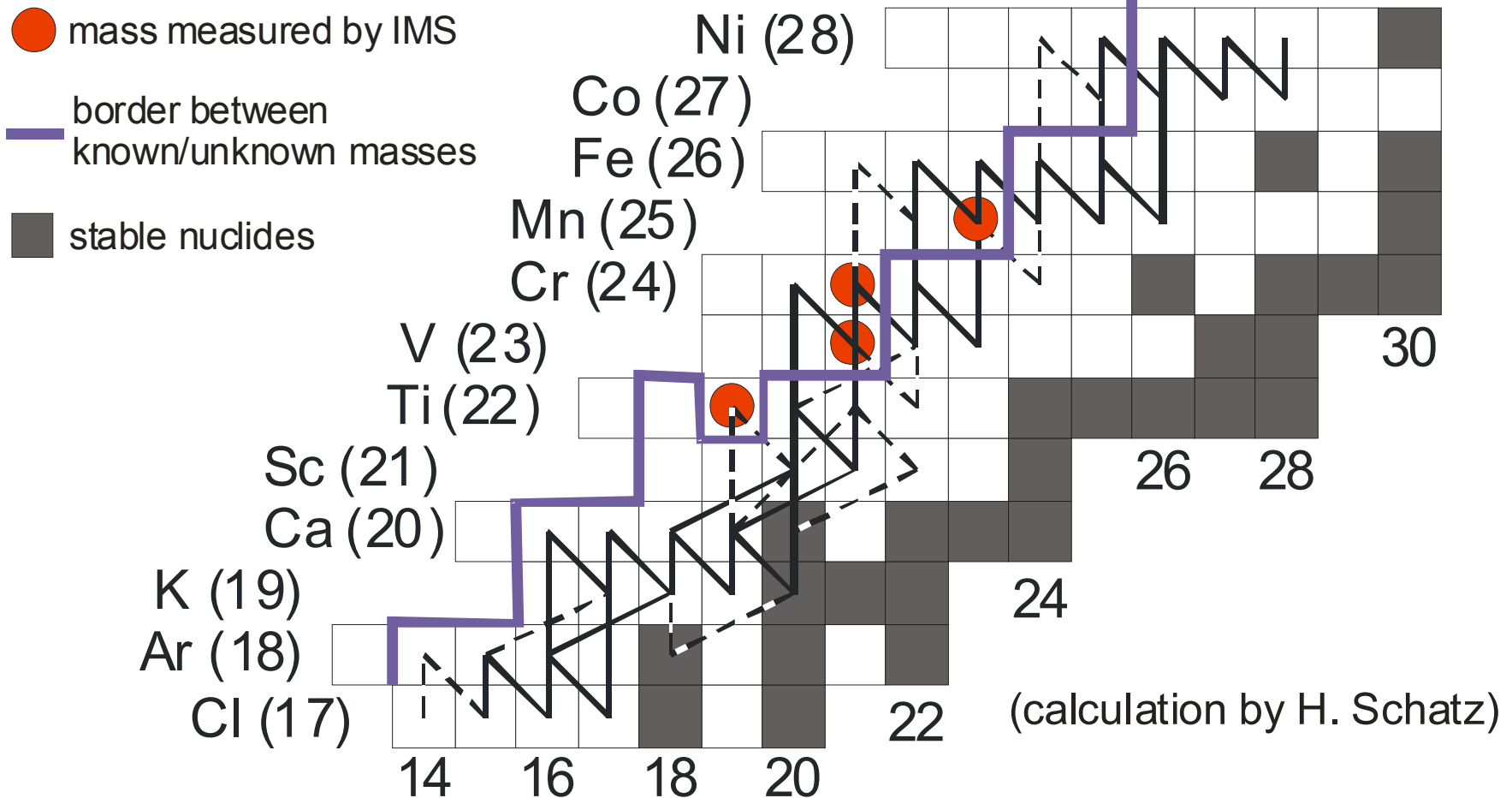


^{135}Sn setting

m/q range is 2.4-2.7



New Masses measured at the rp-Process



Mass Measurements with IMS in the ESR

