ERRATA 23.02.2013

1. Page 22

The set of equations

$$\Delta^{117}\mathrm{Sn}/^{116}\mathrm{Sn} = \delta^{117}\mathrm{Sn}/^{116}\mathrm{Sn} - \left[\ln\left(\frac{m^{117}\mathrm{Sn}/m^{116}\mathrm{Sn}}{m^{124}\mathrm{Sn}/m^{116}\mathrm{Sn}}\right) \times \delta^{124}\mathrm{Sn}/^{116}\mathrm{Sn}\right]$$

$$\Delta^{118}\mathrm{Sn}/^{116}\mathrm{Sn} = \delta^{118}\mathrm{Sn}/^{116}\mathrm{Sn} - \left[\ln\left(\frac{m^{118}\mathrm{Sn}/m^{116}\mathrm{Sn}}{m^{124}\mathrm{Sn}/m^{116}\mathrm{Sn}}\right) \times \delta^{124}\mathrm{Sn}/^{116}\mathrm{Sn}\right]$$

$$\Delta^{119}\mathrm{Sn}/^{116}\mathrm{Sn} = \delta^{119}\mathrm{Sn}/^{116}\mathrm{Sn} - \left[\ln\left(\frac{m^{119}\mathrm{Sn}/m^{116}\mathrm{Sn}}{m^{124}\mathrm{Sn}/m^{116}\mathrm{Sn}}\right) \times \delta^{124}\mathrm{Sn}/^{116}\mathrm{Sn}\right]$$

$$\Delta^{120}\mathrm{Sn}/^{116}\mathrm{Sn} = \delta^{120}\mathrm{Sn}/^{116}\mathrm{Sn} - \left[\ln\left(\frac{m^{120}\mathrm{Sn}/m^{116}\mathrm{Sn}}{m^{124}\mathrm{Sn}/m^{116}\mathrm{Sn}}\right) \times \delta^{124}\mathrm{Sn}/^{116}\mathrm{Sn}\right]$$

$$\Delta^{122}\mathrm{Sn}/^{116}\mathrm{Sn} = \delta^{122}\mathrm{Sn}/^{116}\mathrm{Sn} - \left[\ln\left(\frac{m^{122}\mathrm{Sn}/m^{116}\mathrm{Sn}}{m^{124}\mathrm{Sn}/m^{116}\mathrm{Sn}}\right) \times \delta^{124}\mathrm{Sn}/^{116}\mathrm{Sn}\right]$$

Is not correct. The correct set is:

$$\Delta^{117}\mathrm{Sn}/^{116}\mathrm{Sn} = \delta^{117}\mathrm{Sn}/^{116}\mathrm{Sn} - \left[\frac{\ln\left[m^{117}Sn/m^{116}Sn\right]}{\ln\left[m^{124}Sn/m^{116}Sn\right]} \times \delta^{124}\mathrm{Sn}/^{116}\mathrm{Sn}\right]$$

$$\Delta^{118}\mathrm{Sn}/^{116}\mathrm{Sn} = \delta^{118}\mathrm{Sn}/^{116}\mathrm{Sn} - \left[\frac{\ln\left[m^{118}Sn/m^{116}Sn\right]}{\ln\left[m^{124}Sn/m^{116}Sn\right]} \times \delta^{124}\mathrm{Sn}/^{116}\mathrm{Sn}\right]$$

$$\Delta^{119}\mathrm{Sn}/^{116}\mathrm{Sn} = \delta^{119}\mathrm{Sn}/^{116}\mathrm{Sn} - \left[\frac{\ln\left[m^{119}Sn/m^{116}Sn\right]}{\ln\left[m^{124}Sn/m^{116}Sn\right]} \times \delta^{124}\mathrm{Sn}/^{116}\mathrm{Sn}\right]$$

$$\Delta^{120}\mathrm{Sn}/^{116}\mathrm{Sn} = \delta^{120}\mathrm{Sn}/^{116}\mathrm{Sn} - \left[\frac{\ln\left[m^{120}Sn/m^{116}Sn\right]}{\ln\left[m^{124}Sn/m^{116}Sn\right]} \times \delta^{124}\mathrm{Sn}/^{116}\mathrm{Sn}\right]$$

$$\Delta^{122}\mathrm{Sn}/^{116}\mathrm{Sn} = \delta^{122}\mathrm{Sn}/^{116}\mathrm{Sn} - \left[\frac{\ln\left[m^{122}Sn/m^{116}Sn\right]}{\ln\left[m^{124}Sn/m^{116}Sn\right]} \times \delta^{124}\mathrm{Sn}/^{116}\mathrm{Sn}\right]$$

2. Page 42, Figure 2.13

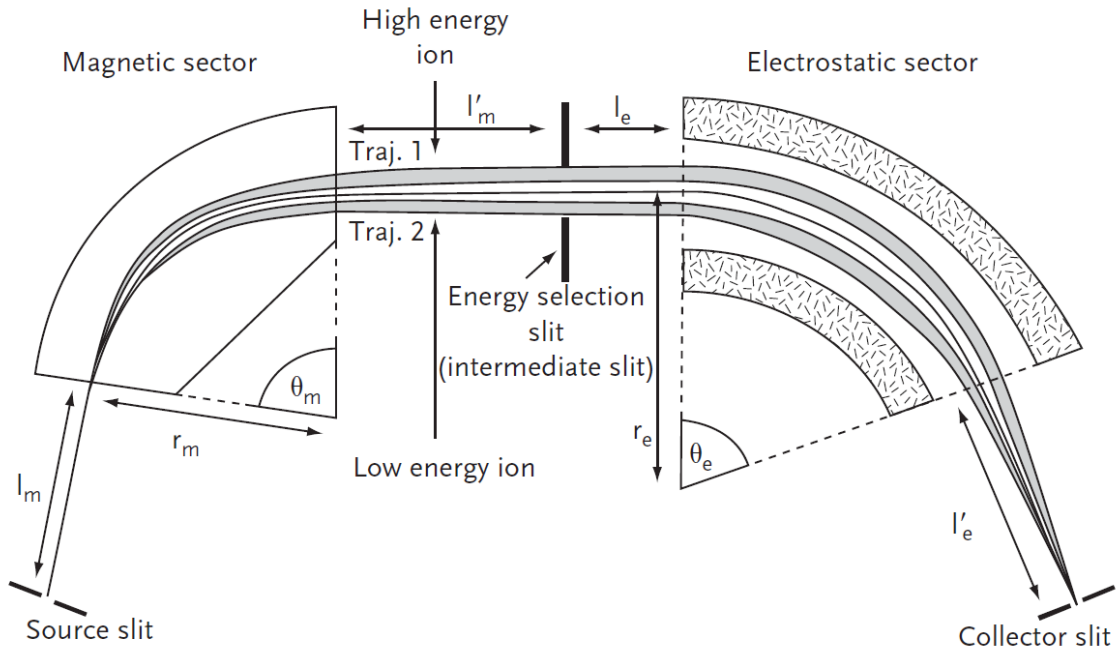

Figure 2.13 Nier–Johnson double-focusing geometry. Reproduced with permission of Wiley-VCH Verlag GmbH from [8].

In contrast to what the figure captions states, this is not a sector field mass spectrometer of Nier-Johnson double-focusing geometry, but one of reverse double-focusing Nier-Johnson geometry. In Nier-Johnson geometry, the electrostatic sector is positioned before (in front of) the magnetic sector. The text states correctly that in multi-collector ICP-MS the Nier-Johnson geometry is deployed, but refers incorrectly to Figure 2.13.

The correct figure would have been