

Interactive comment on “Characterisation of corona-generated ions used in a Neutral cluster and Air Ion Spectrometer (NAIS)” by H. E. Manninen et al.

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1) mobility There are three quantities mentioned: - mobility - electric mobility - ion mobility It is my understanding that these three are the same. Is this correct? Why using three different names for the same thing?

2) manufacturers Please indicate the manufacturers of the instrument you used. This will help readers to reproduce your results.

3) mass/charge The correct symbol for the quantity mass is m . The correct symbol for the quantity charge is Q . Therefore the correct symbol the quantity mass/charge is m/Q . m/z is widely used but wrong. Since z is the symbol of the quantity "charge state", m/z

C300

denotes a quantity mass/charge state which is not what mass spectrometers measure. The Th is a unit for m/Q , not m/z . Therefore I recommend: - replace m/z by m/Q - replace indications like " m/z 99" by "99 Th" - correct header of Table 1 with m/Q (Th)

4) units in axis labels This is a minor issue: many people use square brackets to indicate units on axis labels. This is not quite correct. $[]$ means "unit of". Hence, for example $[m/Q] = \text{Th}$. Units should be indicated in round brackets: m/Q (Th), or axis should be labeled as a fraction $(m/Q)/\text{Th}$. See IUPAC green book.

5) Page 2108 line 24: spelling error: generated instead of generted

6) How is the particle diameter obtained? Is this diameter calculated from the mobility? Is so, by which formula?

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