

Interactive comment on “The mathematical principles and design of the NAIS – a spectrometer for the measurement of cluster ion and nanometer aerosol size distributions” by S. Mirme and A. Mirme

Anonymous Referee #3

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In addition to my comments as referee #3, there is one more point to be discussed. The instrument and the evaluation method (without the correction for negative values) could be correct, but the calibration aerosol might not be well defined. If the calibration aerosol is not well defined (by mean radius and width), the instrument matrix could be wrong. The best calibration aerosol should be well defined by its mean radius and the width of the distribution, mostly expressed as standard deviation. The best calibration aerosol size distribution should not show a narrow distribution, rather a broad distri-

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bution also effecting adjacent channels, but mean radius and standard deviation well defined. In the size range under discussion, this is a difficult task but worth the efforts.

Interactive comment on Atmos. Meas. Tech. Discuss., 4, 7405, 2011.