

Interactive comment on “A method to resolve the phase state of aerosol particles” by E. Saukko et al.

Anonymous Referee #1

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This is a well written description of a new method to follow phase changes of particles in the airborne state. In contrast to the HTDMA method, it can detect also changes in phase not linked to changes in particle size and therefore opens up new investigations (e.g. amorphous solid particles). The drawbacks of the method (changes in pressure because of the use of an impaction stage, lack of quantitative link of bounce to the physical properties of the particle) are adequately described. The latter may be overcome with time, but the problem of pressure drop will persist for particles below 500 nm. Except for a few very minor editorial changes (missing words here and there - please proofread again carefully) I find the MS "acceptable as is"

Interactive comment on Atmos. Meas. Tech. Discuss., 4, 6229, 2011.

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