

Interactive comment on “Density changes of aerosol particles as a result of chemical reaction” by Y. Katrib et al.

Anonymous Referee #2

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This is a valuable paper, providing a thorough examination of how to relate aerodynamic particle diameter to mobility diameter, through a combination of aerosol mass spectrometry and differential mobility analysis techniques. In particular, particle density can be derived from such simultaneous measurements. The paper illustrates how these two diameters are not equivalent, and how one may increase and one decrease due to a chemical reaction, if the density of the particle changes.

I have no significant comments on the content of the paper. The authors appear to have been careful in their experiments and analysis. However, I do suggest that, in some way, the approach could be put into a more “user friendly” manner. It took this reviewer considerable effort going through the paper and for it to be useful to a broader

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community, perhaps a short summary section (or Figure) that codifies the approach could be included.

Interactive comment on Atmos. Chem. Phys. Discuss., 4, 6431, 2004.

ACPD

4, S2633–S2634, 2004

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