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Comment

Interactive comment on “On the microwave optical properties of randomly oriented ice hydrometeors” by P. Eriksson et al.

P. Eriksson et al.

patrick.eriksson@chalmers.se

Received and published: 23 March 2015

We thank the reviewer for a nice summary of our manuscript, and pointing out the value of the study.

The warning about the potential pitfall regarding the definition of scattering and absorption efficiencies is also appreciated. In fact, we noticed this point when importing the DDA data used in the manuscript and we used considerable time to cross-check our results, in several manners, to be sure that we are treating the data correctly.

In any case, any inconsistency of this type between the data from the three DDA databases should be revealed in e.g. Fig 4. The figures of this type show the ratio between DDA absorption and scattering to matching Mie calculations. Any systematic

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difference above 10-20% should clearly stand out in these figures. On the contrary, the Lie and Nowell data points are found in the center of the range spanned by the Hong data.

Interactive comment on Atmos. Meas. Tech. Discuss., 7, 12873, 2014.

AMTD

7, C5206–C5207, 2015

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