

## ***Interactive comment on “Ice nucleating ability of particulate emissions from solid biomass-fired cookstoves: an experimental study” by Kimmo Korhonen et al.***

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Dear Editor,

in addition to the revisions motivated by the review comments, we have also made a few other revisions to improve the quality of the manuscript. We have performed minor revisions to improve the language as well as a couple of more significant revisions. Those main revisions are related to (i) a more detailed description of the SP-AMS methodology, and (ii) the results presented in Fig.7 on supportive physico-chemical particle properties. The changes with respect to Fig. 7 are the following:

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Ångström exponents. We have changed the Ångström exponents from being based on measurements at 2 wavelengths to include all 7 wavelengths in the range from 370 to 950 nm. That improvement did only result in very minor changes to the values reported – but these revised results are more robust.

Effective density of the “blocked sec. air 450nm” sample. During the quality control of all presented parameters, we discovered a mistake in how the effective density for the “blocked sec. air 450nm” sample was inferred. So, the effective density for that sample at 350 has consequently been changed from 0.215 to 0.252 gcm<sup>-3</sup>. The use of the correct value for that sample neither influences our discussion nor any of our conclusions.

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Interactive comment on Atmos. Chem. Phys. Discuss., <https://doi.org/10.5194/acp-2019-890>, 2019.

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