

***Interactive comment on* “Examination of parameterizations for CCN number concentrations based on in-situ aerosol activation property measurements in the North China Plain” by Z. Z. Deng et al.**

Anonymous Referee #2

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This paper presents an evaluation of various methods for parameterization of spectra of cloud condensation nuclei based on in-situ measurements of aerosol activation properties obtained in North China. The paper is generally well-organized, except the following points should be considered during revision:

- 1) The authors stated in their conclusions that a new parameterization of CCN number concentrations were proposed in the paper, but it is not clearly described.
- 2) In most part of the text, the term “concentrations” should be changed as “concentra-

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tion”.

3) In the title and many other places in the text, “aerosol activation property measurements” should be “measurements of aerosol activation property”. Similar expressions are also found in other terms, such as “particle number size distribution”. The authors should revise this kind of expression based on common English grammar.

4) Page 146, Line 9: Is “activation curves” different from “activation ratios”? Here, the latter may be more proper.

5) Page 151, Line 1 and other places in the text: “formulas” should be “formulae”.

6) Page 154, Line 16-19: This sentence is not clear enough.

7) Page 170, the caption of Fig.3: The math expressions are wrong.

8) All the figure captions are not clear enough. For example, in most of the captions, the words, such as “their application of”, are very ambiguous and confusion.

Interactive comment on Atmos. Chem. Phys. Discuss., 13, 145, 2013.

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