

Interactive  
Comment

## ***Interactive comment on “On the representation of immersion and condensation freezing in cloud models using different nucleation schemes” by B. Ervens and G. Feingold***

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After reading the comments by referee #2, I should clarify that my remarks about temperature and not supersaturation as the driving variable for freezing refer to immersion freezing. My assumption is that all parameterization which are fitted to L  nd et al's data refer to immersion freezing, because the measurements are for immersion freezing. How these are extrapolated to water-subsaturated conditions needs to be explained. For cloud droplets, most previous studies have assumed that the solute content (and therefore the water total volume) have a negligible influence on freezing.

Interactive comment on Atmos. Chem. Phys. Discuss., 12, 7167, 2012.

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