Interactive comment on “Measurements of electric charge separated during the formation of rime by the accretion of supercooled droplets” by R. A. Lighezzolo et al.

R. A. Lighezzolo et al.
avila@famaf.unc.edu.ar

Received and published: 9 December 2009

If the inverted polarity storms are certainly associated with high liquid water content, then the hypothesis of the charge separation mechanism by ice-ice collisions should be handled with caution, because it has been experimentally determined that this mechanism can lose its efficiency when the ice-particles are close to the wet growth regime (Pereyra et al, JGR, 113, D17203, doi:10.1029/2007JD009720, 2008).

We think that the best way of checking the efficiency of the splinter mechanism is by using a cloud electrification numerical model.

By the way, we will appreciate if the reviewer could suggest some references in literature of the microphysical conditions and charge structures of inverted polarity storms.