

# ***Interactive comment on “Ionospheric Plasma Density Measurements by Swarm Langmuir Probes: Limitations and possible Corrections” by Piero Diego et al.***

**Piero Diego et al.**

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Authors want to thank the Referee for the general comment and they appreciate the suggestions that surely will be applied in a new realisation of the paper. The analysis of cylindrical  $L_p$ , even if interesting for a general description of  $L_p$ , it appears a little bit out of theme for our paper since both satellites have spherical one. A short description of  $T_e$  used for the calculation of the Debye length along the orbit will be included in future revisions. Anyway, since the two time-series of  $T_e$  are in very good agreement, no differences have been found in the correction factor when applying CSES or Swarm values. We could state that discrepancies found in Ne, rather than in  $T_e$ , suggests that

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the two instruments work properly but at different collected current level. Best regards  
Piero Diego

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