Comment on gi-2022-7
Anonymous Referee #2


Review Laboratory Measurements of the Performances of the Sweeping Langmuir Probe Instrument Aboard the PICASSO CubeSat

This article reports on laboratory measurements of a LP sensor aboard a cubsat. Such measurements are important and necessary to fully exploit the data analysis of this instrument.

The article is worth publishing, after minor comments to be addressed by the authors:

(1) it would be useful to mention the status of the PICASSO satellite to put the article into context.
The article only mentions that this is an in-orbit demonstrator launched in September 2020.

(2) Is it possible to briefly explain what "the traditional Orbital-Motion-Limited (OML) collection theory" is for? (page 2)

(3) Figure 1 caption: clarify in which V range exactly the current is multiplied by 3.

(4) In the text sometimes it's PI-CASSO or PICASSO. Update for coherence.

(5) Page 7: SPIS (Spacecraft Plasma Interaction System) simulations were performed. it would be useful to mention here
all assumptions for these simulations (surface properties etc.).