Interactive comment on “Dynamics Geomagnetic Storm on 7–10 September 2015 as Observed by TWINS and Simulated by CIMI” by Joseph D. Perez et al.

Anonymous Referee #1

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The authors revised the equation for the pressure terms. However, the equation seems to be different from the equation given by De Michelis et al. (1997, http://doi.wiley.com/10.1029/96JA03743) by a factor of \( \pi m \). I am curious to know the reason why the equation is different.

The definition of the plasma pressure is changed. Does this change have any impact on the result? I suppose that lower energy protons may have more impact on the pressure.

I recommend removing \( n \) from \( F(E, n, \cos \alpha) \) because \( F \) is an arbitrary function and \( n \) is an independent variable.