

Global Flow patterns in the Jovian magnetosphere: Galileo/EPD and Galileo/PLS measurements

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Abstract

The global flow patterns of charged particles in the Jovian magnetosphere is one of the most important parameters to study the global configuration and the dynamics of the largest magnetosphere in our solar system. Plasma and energetic particle flow measurements derived onboard the Galileo spacecraft between 1995 and 2003 are used to investigate local time and radial dependencies. Of special interest of this study is the location of the “corotation breakdown” in the Jovian magnetosphere (important for the understanding of the current systems responsible for the main aurora on Jupiter), the radial flow bursts in the Jovian magnetotail (important for the understanding of quasi-periodic plasmoid release and particle loss through the tail), and the existence of supercorotational flows in the magnetosphere (important to understand features in the middle and outer magnetosphere as well as in auroral emissions).

5. Equations

Below, you will find examples of two equations. You should use an equation editor of your word-processing program in order to include your equation(s). The equation number should be placed at the right side of the column and all equations should be consecutively numbered.

$$a^2 + b^2 = c^2 \quad (1)$$

$$E = m \cdot c^2 \quad (2)$$

6. Summary and Conclusions

After having finished your paper in your word-processing program, please create a respective pdf file out of the document. The correct page settings of 237 (height) x 180 (width) mm are included in the template document. **Please make sure that the generated pdf file actually has a page size of 237 x 180 mm.** This is the only way to guarantee the proper inclusion of your paper in the Copernicus Office database. Please note that you are asked to upload a pdf file during the abstract submission in Copernicus Office. No other file type than .pdf is accepted for the file upload. The actual citation header will be added automatically!

Acknowledgements

The Acknowledgements section should not be numbered. Here, you may include all persons or institutions which you would like to thank. We recommend that the abstract is carefully compiled and thoroughly checked, in particular with regard to the list of authors, **before** submission.

References

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