Author Instructions

For the Preparation of

Camera Ready Manuscripts

Conference Proceedings

Volume size: 6 x 9 inches
Format: single column

February 2001
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INTRODUCTION

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- A sample paper is in the back of this Instruction booklet. It incorporates most features of a paper and you can see what it should look like for publishing in AIP Proceedings.

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<tr>
<td>Sabine Kessler</td>
<td><a href="mailto:skessler@aip.org">skessler@aip.org</a></td>
<td>516-576-2477</td>
<td>516-576-2450</td>
</tr>
<tr>
<td>Charles Doering</td>
<td><a href="mailto:cdoering@aip.org">cdoering@aip.org</a></td>
<td>516-576-2475</td>
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Use either standard letter size 8.5 x 11 inch paper (in North America) or the standard A4 210 x 296 mm paper. Print on one side only of good quality white paper using a printer with at least 600 dpi resolution.

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The text area covered by your writing is prescribed here and has to be followed exactly, while the margins vary depending on the stationery used. The text area should be roughly in the center of the page. Adjust your margins accordingly.
For the trim size of the published book of 6¾ x 9¼ inches (162 x 235 mm) and the single column format,

the text area will be 5-13/16 inches wide x 8¾ inches long,

or 148 x 219 mm, or 35 x 52 picas.

It is important to follow the above specifications exactly when setting the margins. Pages will be reduced by 15% in the printing process. In order to help guide you with the specified text area, attached is an acetate overlay (with the dimensions ruled out) that you may put over your page to make sure the text fits in this ruled box exactly. If the type exceeds these guidelines or even comes short, the page length and/or width will need to be adjusted on your computer. **You may have to compute the margin settings and test them to make sure the text area dimensions are followed exactly.**

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**Fonts:** Times Roman throughout, 12 point size, for the body of the paper. For point sizes of various headings and other parts, see below.

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- **Title of paper** 20 point size, **Bold, Cap/lower case**, centered. Place the title ½ inch (13 mm) below the top margin. Leave two blank spaces below the title line.
- **Author(s) of the paper** 14 point size, Cap/lower case, centered. Leave two blank spaces below the author names.
- **Author Affiliations and Addresses** 10 point size, *italic, Cap/lower case*, centered. Leave three blank lines below the author addresses.
- **Abstract** Indent two spaces from the left and right margins. Use 10 point size, fully justified. Leave two blank lines below the abstract.
- **Paragraph style** Indent first line three spaces; no extra line spacing between paragraphs.
- **Figure captions** Use 10 point size.
- **Footnotes and References** Use 10 point size.
• **Headings**

**FIRST-LEVEL HEADING**  
Use 14 point size, bold, all caps, centered

**Second-Level Heading**  
Use 14 point size, bold, cap/lower case, centered

*Third-Level Heading*  
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To see an example of layout and specifications, see the sample paper in the back of these Instructions. “A picture may be worth 1000 words.”

**TITLE, AUTHORS, AFFILIATIONS**  
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- Use the full title of the paper.
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Use headings and subheadings as needed. When making up pages, make sure to stay within the allowed area. Check with the overlay grid provided in these Instructions. Avoid large blank areas within the grid.

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Make your equations clear and legible, centered, with a space above and below. Equations should be the same point size as the text.

Place each equation on a separate line and number equations sequentially. Enclose the equation number in parentheses, and place it flush with the right-hand margin. Equation (1) is an example of a one-line equation.
\[
\frac{d[F_1]}{d\omega_2} = SAm_2 \cos \omega, \quad \frac{d[F_1]}{d\omega_3} = SAm_3 \cos \omega. \quad (1)
\]

Equation (2) shows how to format a two-line equation.

\[
\begin{align*}
\frac{d^2 \xi}{dt^2} - 2n \frac{d\eta}{dt} &= \frac{dV}{d\xi} n^2 \xi, \\
\frac{d^2 \eta}{dt^2} - 2n \frac{d\xi}{dt} &= \frac{dV}{d\eta} n^2 \eta.
\end{align*} \quad (2)
\]

**TABLES**

Number tables in the text with arabic numerals. Give each table a concise title and define any abbreviations in footnotes to the table. Place tables at the top or bottom of the page, close to where they are first cited. Center the table in the width of the text area. **Fonts for the entire table are Times Roman, 10 point size**, including title and footnotes.

Table number and title are left-aligned above the table. Type the word “TABLE 1.” In bold caps followed by a period. The table title is normal font, caps and lower case.

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Cite all figures in the text with arabic numerals by saying “Fig. 1” or Figure 1 for example. **Place the figures as close as possible to their first mention in the text at the top or bottom of the page** with the figure caption positioned below, all centered.

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Set **figure captions** in 10 point size, Times Roman font. Type the word “FIGURE 1.” in bold caps followed by a period. Each figure must include a caption which clearly and succinctly explains its content. Position the caption ¼ inch (6 mm) below the artwork. The caption should be the full width of the text area; if the caption runs shorter than the width, center the caption.
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Footnotes appear at the bottom of the page where they are cited by superscript numbers. Place a ½ point rule (line) 2 inches (50 mm) long above the footnote. Leave ¼ inch (6 mm) blank space above the rule and 1/8 inch (3mm) blank space below the rule. Set the footnote in 10 point size.

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Acknowledgments should be positioned at the end of the paper and before the reference section. Set the word “ACKNOWLEDGMENTS” as a first-level heading (14 point size, bold, all caps). The acknowledgments are in 12 point size.

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Sailing Slow Solar Winds: New View from the Far Side of the Universe

Gary M. Larson*, Georgios N. Ikaros†, John T. Ribald¶, and O. Susanne Hiquu¶

*Laboratory for Astronomy and Solar Physics, NASA Goddard Space Flight Center, Greenbelt, MD 20771, USA
†Department of Physics, National Technical University, GR-10101 Athens, Greece
‡Department of Astronomy, Yale University, P.O. Box 208101, New Haven, CT 06520-8101, USA

Abstract. Models of coronal mass ejection (CME) propagation and evolution in the solar wind, which range from simple one-dimensional fluid to three-dimensional MHD algorithms, continue to provide important insights into the dynamics of CMEs and are a valuable tool in the interpretation of interplanetary in situ observations. In this paper, we summarize and discuss the current state of knowledge with respect to these models. In particular, we highlight the structure of the ambient solar wind into which the CME propagates.

INTRODUCTION

A neutron monitor measures the flux of atmospheric neutrons in nuclear cascades initiated by primary cosmic rays with energies upwards of 1 GeV. At these energies, the typical effect of a coronal mass ejection (CME) is to suppress the intensity of ambient cosmic rays (of galactic origin) in the solar wind. This effect is called a “Forbush decrease.”

Satellite measurements in the solar wind had already revealed that the interplanetary medium often exhibits disturbances in the form of transient shock waves, unusual plasma flows, and magnetic field variations. Some of the post shock plasma flows showed high He\(^{++}\) fluxes, high magnetic field strengths, and smooth loop-like variations of the magnetic field direction.

Second Level Heading (Heading 2)

Satellite measurements in the solar wind had already revealed that the interplanetary medium often exhibits disturbances in the form of transient shock waves, unusual plasma flows, and magnetic field variations. Some of the post shock plasma flows showed high He\(^{++}\) fluxes, high magnetic field strengths, and smooth loop-like variations of the magnetic field direction. See Fig. 1.

\(^1\) This is an example of a footnote.
Satellite measurements in the solar wind had already revealed that the inter-planetary medium often exhibits disturbances in the form of transient shock waves, unusual plasma flows, and magnetic field variations [3]. Some of the post shock plasma flows showed high $\text{He}^{2+}$ fluxes, unusually low proton and electron signatures, high magnetic field strengths. Satellite measurements in the solar wind had already revealed that the inter-planetary medium often exhibits disturbances in the form of transient shock waves, unusual plasma flows, and magnetic field variations [4]. Satellite measurements in the solar wind had already revealed that the inter-planetary medium often exhibits disturbances in the form of transient shock waves. As shown in Fig. 2, some of the post shock plasma flows showed high $\text{He}^{2+}$ fluxes, unusually low proton and electron signatures, high magnetic field strengths, and smooth loop-like variations of the magnetic field direction and are summarized in Table 1.
**TABLE 1.** This is an Example of a Table Caption.

<table>
<thead>
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<th>Column Header Goes Here</th>
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</tbody>
</table>

\(^a\)This is an example of a table footnote.

**Third Level Heading (Heading 3)**


Equation (1) is placed here as an example:

\[
\frac{d[F_1]}{d\omega_2} = SAm_2 \cos \omega, \quad \frac{d[F_1]}{d\omega_3} = SAm_3 \cos \omega. \tag{1}
\]

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