

Author Instructions for AIP Conference Proceedings Manuscripts

Space Technology and Applications International Forum - 2008
Albuquerque, New Mexico, USA
February 10-14, 2008

Draft manuscripts are due by
August 1, 2007

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October 1, 2007



Melville, New York, April, 2007
AIP CONFERENCE PROCEEDINGS

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Double check everything on the original manuscript to be submitted against the instructions in this booklet, such as

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Mohamed S. El-Genk
STAIF-2008 Proceedings Editor
Institute for Space and Nuclear Power Studies
MSC01-1120
1 University of New Mexico
Albuquerque, NM 87131-0001
USA

PHYSICAL ADDRESS FOR SHIPPING OR EXPRESS MAILING:

Mohamed S. El-Genk
STAIF-2008 Proceedings Editor
Institute for Space and Nuclear Power Studies
University of New Mexico
Farris Engineering Center, Room 239
Albuquerque, NM 87131-0001
USA

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Actual Examples of the Formatting in this Style Guide Can Be Found on Pages 9 & 10 – Please Review Them Carefully Before Submitting Your Manuscript

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SPECIFICATIONS

Use either standard letter size 8.5 x 11 inch paper (in North America) or standard A4 210 mm x 296 mm paper. Print on one side only of good quality white paper using a laser printer with at least 300 dpi resolution. If an electronic file is sent, ISNPS will print the paper on letter size paper.

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Title of paper: 18 point size, bold, cap/lower case, centered; use capitalization rules for headline style (title case), i.e., nouns, pronouns, adjectives, verbs, adverbs, and subordinating conjunctions (if, because, as, that, etc.) are capitalized. Articles (a, an, the), coordinating conjunctions (and, but, or, for, nor), and prepositions, regardless of length, are lowercased. Place the title 3/4 inch (20 mm) below the top margin of the typing area (i.e., for U.S. letter-size paper, approx. 1 3/4 inches from the top edge of the paper, first page only). Leave one blank line of space (18 point) below the title line. Use the full title of the paper. Please look at the sample on page 10.

Author(s) of the paper: 14 point size, cap/lower case, centered. Leave one blank line of space (18 point) below the author names. Include all author names in full. Take care with spelling of coauthor names and initials.

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Please supply keywords and PACS codes for your article.

Keywords should describe the main topics of the research reported in the article, with 3-8 keywords typically being sufficient. Very general terms are not necessary (e.g., "physics" or "astronomy"); keywords should instead describe specific topics and thus help someone searching for articles in these subject areas.

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Keywords: Space reactor, spectral shift absorbers, operating lifetime, temperature reactivity feedback.

PACS: 28, 28.41-I, 28.41.Ak.

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Format the headings in your paper according to the sample paper on pages 10 and 11. Leave 2 lines of space (10 point each) above the head and 1 line of space (10 point) below. **At least one paragraph of text must be included between headings.**

FIRST-LEVEL HEADING

Use 12 point size, bold, all caps, centered

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Use 12 point size, bold, cap/lower case, centered

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BODY OF PAPER

Body Text: Use 10 point font size for text.

Use headings and subheadings as needed. When making up pages, make sure to stay within the allowed area. Avoid large blank areas within the text area. **Do not leave extra space at the bottom of a page** because a figure is too large to fit on that page. Instead, try moving up the next couple of paragraphs or lines of text from a section below the figure to fill in the gap.

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Use 10 point font size for equations, the same font size as the text.

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

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

$$\begin{aligned} \frac{d^2 \xi}{dt^2} - 2n \frac{d\eta}{dt} &= \frac{dV}{d\xi} n^2 \xi, \\ \frac{d^2 \eta}{dt^2} - 2n \frac{d\xi}{dt} &= \frac{dV}{d\eta} n^2 \eta. \end{aligned} \quad (2)$$

SYMBOLS AND ACRONYMS

Refer to the American Institute of Physics (AIP) Style Manual for standard symbols and unit abbreviations. You may download the Fourth Edition free of charge from <http://www.aip.org>, click on the link for *Author Information* and select the *AIP Style Manual*, or follow this link <http://www.aip.org/pubservs/style.html>.

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Table captions: Use 9 point size.

Table number and title are **set above the table, flush with the left-hand edge of the table**. Type the word “**TABLE 1.**” in bold caps followed by a period, and type the caption in Times Roman, cap/lowercase, headline style (title case, see page 10, title of paper for capitalization rules). If table caption is not a complete sentence, capitalize key words in caption.

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Wide tables: If a table is wider than the page, turn the table on the page (broadside) so the top of the table is on the left side of the page. Do not add text to a page containing a broadside table.

FIGURES

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If a figure depicts an object with multiple parts, label each part clearly using type that is large enough to be legible.

If you are inserting a chart as a figure, the background of the plot area should be white, not gray or some other color. Include SI units, if applicable. Avoid color charts with subtle shadings of color, as they generally do not print well in the hardbound black and white version of the proceedings.

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ACKNOWLEDGMENTS

Acknowledgments: Use 10 point size.

Acknowledgments should be positioned at the end of the paper and before the reference section. Set the word “**ACKNOWLEDGMENTS**” as a first-level heading (12 point size, bold, all caps). Notice the spelling. We are not using an “E” after the “G” for consistency within the proceedings.

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Austin, K., and Brown, M.P., *The New Physique*, Publisher, London, 2003, pp. 25-30.

Wang, R.T., “Title of the Paper,” in *Classic Physiques*, edited by R.B. Hamil, Publisher, New York, 2003, pp. 212-213.

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Brown, M.P., and Austin, K., “Article Title,” *Appl. Phys. Letters* **80**, 2503-2504 (2002).

For a reference to a paper presented at a conference and published in proceedings:

Last name(s) and initial(s) of authors, “Title of Paper,” in *Title of Proceedings* (in italics), edited by editor name, publisher and series number, place of publication, year, inclusive page numbers:

Smith, C. D., and Jones, E. F., “Load-Cycling in Cubic Press,” in *Shock Compression of Condensed Matter-2001*, edited by M. D. Furnish et al., AIP Conference Proceedings 620, Melville, New York, 2002, pp. 651-654.

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El-Genk, M. S., and Saber, H. H., “Cascaded Thermoelectric Conversion Advanced Radioisotope Power Systems (CTC-ARPSs),” in these proceedings of *Space Technology and Applications International Forum (STAIF-07)*, edited by M. S. El-Genk, American Institute of Physics, Melville, New York, 2008.

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Mason, L.S. *A Comparison of Brayton and Stirling Space Nuclear Power Systems for Power Levels from 1 Kilowatt to 10 Megawatts*, NASA/TM 2001-210593, NASA Glenn Research Center, Cleveland, OH, 2001.

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Burka, L. P., “A Hypertext History of Multi-User Dimensions,” (1993), <http://www.utopia.com/talent/lpb/muddex/essey.html>, accessed February 3, 2003.

Godfroy, T., Ring, P., Patton, B., Houts, M., Pederson, K., NASA Marshall Space Flight Center, “Mechanism to Ensure Safety of Fission System during Launch,” (2001), <http://std.msfc.nasa.gov/sciresearch/staif.pdf>, accessed April 8, 2001.

Examples of Styles Discussed in this Style Guide

For first page only, start title ¾" below top margin (usually a total of 1 ¾")

Physics and Cosmology in the New Millennium (18 point)

Steven R. Smith^{1a}, George M. Brown^{2,3}, and Jane S. Bond^{1b} (14 point)

^{1a}*Department of Astronomy, and* ^{1b}*Department of Physics, NASA Goddard Space Flight Center, Greenbelt, MD 20771, USA*

²*Department of Physics, Max-Planck-Institut für Physik, Seestrasse 3, 85748 Garching, Germany*

³*Department of Astronomy, University of Rome "La Sapienza", Via della Ricerca Scientifica, 00173 Rome, Italy*

^{1a}*Lead author's telephone, fax (optional), e-mail (10 point, italic)*

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Keywords: Enter Keywords here.

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This is the standard font and layout for the individual paragraphs. See Table 1. Use 10 point Times Roman font for text. Equation (1) is placed here as an example:

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

TABLE 1. This is an Example of a Table Caption, Left-Aligned with Table.

Column Header Goes Here	Column Header Goes Here	Column Header Goes Here	Column Header Goes Here
Row Name Goes Here	x	x	x
Row Name Goes Here	x	x	x
Row Name Goes Here	x	x	x

Figure and table captions. Use 9 point size, Times Roman font. Type the word "FIGURE 1." in bold caps including a period, set the legend in Times Roman, Cap/lowercase, headline style. Clearly label your figures and number them consecutively. Each illustration 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. The caption should end with a period. (Wang, 2003). See Fig. 1.

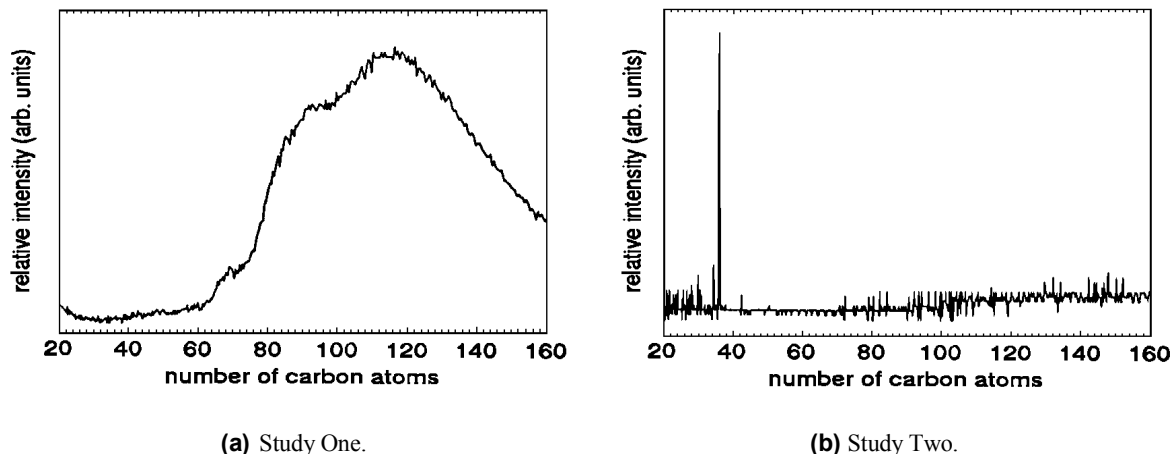


FIGURE 1. Use 9 Point, Times Roman Font for Figure Captions.

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CONCLUSION

Please have a conclusion/summary section at the end of your paper. If a nomenclature section is needed, it will follow the conclusion section.

NOMENCLATURE

ϵ = efficiency of RF signal power conversion
 F = view factor, sun/earth/space to front and/or back of antenna
 L = length (m)
 t = time (s)
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REFERENCES

- Brown, M. P., and Austin, K., *The New Physique*, Publisher, London, 2002a, pp. 25-30.
 Brown, M. P., and Austin, K., "Article Title," *Appl. Phys. Letters* **80**, 2503-2504 (2002b).
 Wang, R.T., "Title of Chapter," in *Classic Physiques*, edited by R. B. Hamil, Publisher, New York, 2002, pp. 212-213.
 Garner, C. E., Layman, W., Gavit, S. A, and Knowles, T., "A Solar Sail Design for a Mission to the Near Interstellar Medium," in proceedings of *Space Technology and Applications International Forum (STAIF 2004)*, edited by M. S. El-Genk, AIP Conference Proceedings 699, Melville, New York, 2004, pp. 651-654.

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