**Sample HTPD article for RSIa)**

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This document gives formatting instructions for authors preparing papers for publication in the Proceedings of the 24th High Temperature Plasma Diagnostics Conference in the *Review of Scientific Instruments*. Authors must follow the instructions given in this document; it should be used as an instruction set. All files MUST be submitted through the online system at: <http://rsi.peerx-press.org/>

**I. THE MANUSCRIPT**

**A. Manuscript submission**

Papers should be submitted for publication by the start of the Conference and on no account any later than by Friday, 3 June, 2022. The submission of an article for review for the Proceedings must be in a “camera ready” format. This includes MSWord files with the figures and tables embedded, as in this sample, or a LaTeX file with figures embedded. Both the initial manuscript and also the final, revised manuscript should be in the same format. All files MUST be submitted through the online system at: <http://rsi.peerx-press.org/>. It is hoped this “camera ready” format for manuscripts will aid conference authors in accurately *estimating* the finished article length. This template is not a replica of the finished product and can only help estimate the final length. Each version of the manuscript must be submitted with its own complete set of files: cover letter (including title, authors and the abstract’s program number assigned by the conference organizers), complete article file, and separate figure files (see section X. FIGURES) and after being refereed a response/rebuttal letter (listing changes made addressing the Editor’s and Reviewers’ comments).

**B. Preparation of manuscript**

Please use this “sample manuscript” as a template for preparing your own manuscript. This will ensure that your submission will be in the required format. Please read all of the following manuscript preparation instructions carefully and in their entirety. The manuscript must be submitted in good scientific American English ([AIP Author Services](https://authorservices.aip.org/) can provide assistance); this is the author's responsibility. Papers should not be lengthened by unnecessary descriptions and repetitions, but neither should authors use a telegraphic style detrimental to the clarity and understanding of the paper.

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c)Reference for a “Team” authorship.

**II. MANUSCRIPT LENGTH**

**Manuscripts cannot not exceed the agreed upon journal page length for a contributed (5 pages) or invited (9 pages) paper**. An abstract limited to about 250 words is required. DO NOT reduce the size of figures or the text font size in order to create more space for text.

**III. TITLE**

The **title** should be as concise as possible but informative enough to facilitate information retrieval. Only the most common acronyms and abbreviations are allowed in the title. If a device name is abbreviated in the title, the full name must be revealed early in the main text.

**IV. ABSTRACT**

The **abstract** should be limited to about 250 words and should be self-contained (contain no footnotes or citations to references). It should be adequate as an index (giving all subjects, major and minor, about which new information is given), and as a summary (giving the conclusions and all results of general interest in the article). The abstract should be written as one paragraph and should not contain displayed mathematical equations or tabular material.

**V. AUTHORS’ NAMES and ADDRESSES**

Authors' names should preferably be written in a standard form for all publications to facilitate indexing and avoid ambiguities. Please provide complete address(es). If a “Team” or “Contributors” name is called out in the author list, it should be marked with a superscript letter and referenced to a paper which includes the names of the team members in the panel at the foot of the first column of the first page.

**VI. HEADINGS**

**Headings must be numbered and follow the prescribed format below:**

**I. PRINCIPLE HEADING**

**A. First subheading**

***1. Second subheading***

 ***a. Third subheading***

**VII. EQUATIONS**

**Equations** should be punctuated and aligned to bring out their structure and numbered on the right. Mathematical operation signs indicating continuity of the expression should be placed at the left of the second and succeeding lines. Use (x) rather than a centered dot, except for scalar products of vectors. The solidus (/) should be used instead of built up fractions in running text, and in display wherever clarity would not be jeopardized. Use "exp" for complicated exponents.

,(1)

.(2)

**VIII. NOTATION, ACRONYMS, & ABBREVIATIONS**

**Notation** must be legible, clear, compact, and consistent with standard usage. All unusual symbols whose identity may not be obvious must be identified the first time they appear, and at all subsequent times when confusion might arise. Superscripts are normally set directly over subscripts; authors should note where readability or the meaning requires a special order.

Acronyms and abbreviations should be defined the first time they are used, both in the abstract and separately in the main text, unless they are very well established. They should be used with considerable moderation. There should be no acronyms or abbreviations in the title if at all possible, except for a few in universal use, where it would be clumsy to avoid them.

**IX. TABLES**

Separate **tables** (numbered with Roman numerals in the order of their appearance in the text) should be used for all but the simplest tabular material; they should have captions that make the tables intelligible without reference to the text. The structure should be clear, with simple column headings giving all units. Unaltered computer output and notation are generally unacceptable.

TABLE I. Sample table.

|  |  |  |
| --- | --- | --- |
| Set point(V) | δ in air(V/rad) | δ for tilted mirror(V/rad) |
| -2-10123AverageSader *k*φ(Nm/rad) | 3.58 × 1033.60 × 1033.52 × 1033.57 × 1033.58 × 1033.54 × 1033.56 × 103γpivot | 3.50 × 1033.53 × 1033.61 × 1033.53 × 1033.56 × 1033.56 × 1033.55 × 103δ(V/rad) |
| 3.13 × 10-93.75 × 10-94.59× 10-93.91 × 10-94.08 × 10-95.07 × 10-95.78 × 10- | 9.82 × 10-131.02 × 10-131.29 × 10-131.07 × 10-131.02 × 10-131.27 × 10-131.33 × 10-13 | 3.19 × 1033.68 × 1033.56 × 1033.66 × 1034.01 × 1033.99 × 1033.90 × 103 |

**X. FIGURES**

**A. General guidelines for preparing iIlustrations**

* Number figures in the order in which they appear in the text.
* Within your figure files, please identify all figure parts with (a), (b), etc. Avoid any large disparity in size of lettering and labels used within one illustration.
* Prepare illustrations in the final published size, not oversized. The maximum published width for a one-column illustration is 3-3/8 inch (8.5 cm).
* In cases where reduction is required, avoid small open symbols that tend to fill in, and avoid small lettering; ensure that, in the final published illustration, there is a minimum of 8-point type size (2.8 mm high; 1/8 inch high) for lettering and 0.5-point width for lines.



FIG. 1. Sample figure.

* Ensure that lettering and lines are dark enough, and thick enough, to reproduce clearly. Remember that fine lines tend to disappear upon reduction.
* The figures must be imbedded in the manuscript in the approximate position and size you think is appropriate. **In addition, separate figure files must be provided along with the manuscript as described below.**

**B. Additional guidelines for preparation of electronic graphics files**

* Acceptable formats: Encapsulated PostScript (.eps, using either Arial or Times Roman fonts) is preferred. PostScript (.ps), Tagged Image File Format (.tif, lzw compressed), Portable Document Format (.pdf), or JPEG (.jpg) files are also acceptable. Application files (e.g., Corel Draw, Microsoft Word) are not acceptable.
* Settings: Set the graphic for 600 dpi resolution for line art, 264 dpi for halftones, and 600 dpi for combinations (line art + halftone).
* Save line art as black/white bitmap, not grayscale.
* Save halftones and combinations as grayscale, not black/white bitmap.
* Submit color files at 300 dpi TIFF, PS, or EPS format. If selecting a file mode, use CMYK (cyan, magenta, yellow, black) or RGB (red, green, blue).



FIG. 2. (Color online). Sample of figure file.

**XI. FINISHED LENGTH**

The conference agreed-upon final journal article must be no longer than five (5) pages for contributed papers, or nine (9) pages for invited papers. This template provides an *estimate* of the final length. The Editors may require you to shorten your article at their discretion.

**XII. ACKNOWLEDGMENTS**

As appropriate, authors should consider acknowledging technical or scientific support, as well as their sponsoring agency or institution, such as the Department of Energy, with a Grant or Contract number. This work supported by U.S. DOE under Grant Nos. DE-FG99-99AB9999, etc.

**XIII. REFERENCES AND FOOTNOTES**

**References and footnotes** are treated alike. They must be numbered consecutively in order of first appearance in the text and should be listed at the end of the text material. Reference should be made to the full list of authors, rather than to first author followed by an abbreviation such as et al. The sole exception is when there are 10 or more authors, in which case the first author’s name *et al* may be used*.* References within tables should be designated by lowercase Roman letter superscripts and given at the end of the table. For the proper reference format, see recent issues of this journal. Preprints of cited unpublished work by the authors should be sent with the manuscript. All references are to be superscript, not inline in parentheses, brackets, or braces.

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4V. S. Voitsenya, K. Yu. Vukolov, A. E. Costley, and D. V. Orlinski, Proceedings of the 30th EPS Conference on Controlled Fusion and Plasma Physics, St. Petersberg, 7–11 July 2003 (unpublished), Vol. 27A, O-4.3D.

5M. Lipa *et al.*, Final Report of EFDA Contract No. TWP2002-TW2\_TPDS-Diadev-D2, 2004 (unpublished).

**XIV. REFEREEING**

All papers will be reviewed by two referees. All authors of papers presented at the Conference, except students, may be asked to referee the submitted papers. Referees are asked to return their comments to the RSI Editors within 14 days of receipt.