

Instructions for Camera-ready Papers

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This paper provides instructions to submitting authors of PHYSOR 2004 full papers, including those presented in poster sessions. This document (in Word) and the similar WordPerfect one also attached embody all of the required formats for the full papers. The abstract should briefly state the purpose, method, and results of the work described in the paper.

A separate abstract (not exceeding 200 words), including the paper title and author names, must be emailed as a Word email attachment, for publication in a hardcopy abstract book to be distributed at the meeting.

KEYWORDS: *.pdf, Times New Roman, 12-point-font, single-spaced, single column, February 2, 2004, 8.5x11 inches, ANS copyright release*

1. Introduction

The PHYSOR 2004 proceedings will be distributed at the conference without any changes made to the papers as submitted. Therefore, you are requested to prepare a camera-ready paper conforming to the format described in the following instructions. This is easily done by using the format in this document, which can be downloaded from <http://www.physor2004/authors.htm>. Authors are encouraged to submit papers of 8 or fewer pages. Figures, photos and/or tables should be attached within the body of the paper. The last day for full paper submission is February 2, 2004.

2. Manuscript Preparation

2.1 Number of Copies, Size of Pages

Papers must be submitted by (1) emailing a PDF format copy of the paper and separate abstract to physor2004@anl.gov, with the tracking ID number in the e-mail subject line, (2) mailing a hardcopy to R. Blomquist at the above address, and (3) mailing a signed ANS copyright release form to R. Blomquist, downloadable at <http://www.physor2004/authors.htm>. Papers should be provided, using single-spaced, single-column typing on plain, white paper, preferably of letter size (8.5 x 11 inches) or A4. See <http://www.ans.org/pubs/proceedings/acrobatfiles.pdf> for instructions on file conversion to PDF format.

2.2 Headings, Footnotes and Page Numbering

Adopt point system for headings of each section and subsections: e.g., 1., 1.1, 1.1.1, etc. Footnotes in the text should be marked by lower-case superscript letters, thus a and b, and placed at the foot of the page. Page numbers should not be used. The header appearing at the top of this page must be used on the first page of each paper.

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2.3 Abbreviations, Units and Equations

2.3.1 Abbreviations

Standard abbreviations are acceptable in the text, but must not appear in the title or abstract of the paper. For local or newly coined abbreviations, the original term must be spelled out and enclosed in parentheses in its first usage within the text. For example, "Institute of Physics and Power Engineering (IPPE)."

2.3.2 Units

All measurements and data should be given in metric (SI) units.

2.3.3 Equations

Equations should be carefully written and checked so that a compositor can follow the copy easily. Equation numbers should be Arabic numerals enclosed in parentheses on the right-hand margin. The following is an example:

$$K_0 - K_1 = \frac{E}{c^2} \cdot \frac{v^2}{2} \quad (1)$$

2.4 Tables and Figures

2.4.1 Tables

Each table should (a) carry a complete title and (b) be numbered in sequence with Arabic numerals, e.g., "Table 1." Table 1 is an example.

Table 1 Increase in k_∞ of homogeneous $^{235}\text{U}\text{-H}_2\text{O}$ by a small admixture of D [2]

D/H (at.%)	k_∞		$\Delta k_\infty/k_\infty$ (% $\Delta k/k$)	
	Model (a)	Model(b)	Model (a)	Model (b)
0	0.620782	0.620782	0.000	0.000
0.015	0.620844	0.620906	0.010	0.020
0.1	0.621214	0.621638	0.070	0.140
1	0.625154	0.629461	0.704	1.401

(a) fixed atomic number density of H

(b) fixed mass density of H

2.4.2 Figures

Graphs, illustrations and photographs are all referred to as "Figure(s)" and should be consecutively numbered with Arabic numerals in the order of their appearance. Printed characters in the figures should appear using 10-point font. Each figure must have a descriptive title. Figure 1 is an example.

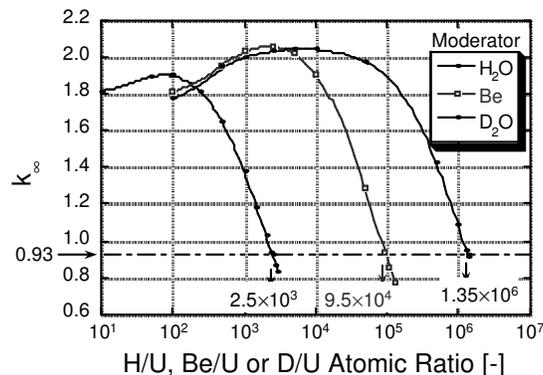


Fig.1 The neutron multiplication factors of infinite homogeneous $^{235}\text{U-H}_2\text{O}$, $^{235}\text{U-Be}$ and $^{235}\text{U-D}_2\text{O}$. [3]

2.5 How to Write References

2.5.1 Location in Text

Reference call-outs should be set in square brackets with Arabic numerals, numbered consecutively for the whole text. Literature citations should be gathered at the end of the text. [1-6]

2.5.2 Authors

The use of the expression "et al." is encouraged in the body of the paper, but discouraged unless there are more than three authors. The names of authors in the reference list should be given in the form in which they appear on the cited work, with the family name (i.e., surname) last.

2.5.3 Titles and Dates

Authors are encouraged to supply full titles for the respective references. [1-5] Titles of papers must be all lowercase, except for the first letters of the first word. Also, years of publication should be enclosed in parentheses. A description of the format for each type of reference is as follows:

2.5.3.1 Journals

Journal article references should include author's name, (paper title), journal title, volume number, initial page number and year of publication. [1,2]

2.5.3.2 Reports

Report references should include the author's name, (paper title), report title, report number, (full name of organization where the report was prepared,) and year of publication. [3]

2.5.3.3 Books

Book references should include the author's name, book title, edition or volume number if any, publisher, city of publication, initial page number and year of publication. [4]

2.5.3.4 Proceedings

Proceeding references should include the author's name, (paper title), title of conference proceedings (with the location and date of the conference), volume number if any, initial page number and year of publication. [5]

2.5.3.5 Homepages

Home page references should include the site name and its address. [6]

3. Publication

The proceedings will be published as a CD-ROM. If you use any material that has been published previously, you must obtain written permission from the copyright holder to reprint it in your paper.

4. Conclusion

In conclusion, the following items must be submitted.

- The full-length paper (pdf format), sent via email to physor2004@anl.gov.
- A separate 200-word abstract (Word format), sent via email to physor2004@anl.gov.
- A print copy of the full-length paper, sent via mail to R. Blomquist at the above address.
- A signed copy of the ANS copyright release form, also mailed to R. Blomquist.

We hope that this paper will be useful to you in preparation of the paper submitted to PHYSOR 2004.

Acknowledgements

The authors wish to thank Prof. B. Atom for helpful comments for preparation of this paper.

References

- 1) A. Einstein, "Ist die Trägheit eines Körpers von seinem Energiegehalt abhängig," Ann. Phys. **18**, 4 (1905).
- 2) H. Okuno, H. Akiyama and H. Mochizuki, "Deuterium effect on the subcritical limit for fissile-to-hydrogen ratio," J. Nucl. Sci. Technol., **40**, 57 (2003).
- 3) C. V. Parks, C. M. Hopper and J. L. Lichtenwalter, "Assessment and Recommendations for Fissile-Material Packaging Exemptions and General Licenses within 10 CFR part 71," NUREG/CR-5432, ORNL/TM-13607 (1998).
- 4) J. K. Rowling, "Harry Potter and the Philosopher's Stone," Bloomsburg Publishing Plc, London, 7 (1997).
- 5) J. Anno and G. Sert, "French participation at ANS/ANSI 8/15 working group updating criticality data on ^{237}Np -criticality; transportation proposals," Proc. Int. Conf. on Nuclear Criticality Safety, ICNC'99, Versailles, France, Sept. 20-24, 1999, **I**, 447 (1999).
- 6) JAERI homepage, <http://www.jaeri.go.jp/english/>.