

**Title of the Paper: Centered, Capitalize the First Letter of Major Words,
14-Point Times New Roman, on Second Line from the Top Margin,
Preferably Not More Than 3 Lines Long**

Author A¹, Author B², and Author C^{3*}

¹Name of Institution 1
Corresponding Address

²Name of Institution 2
Corresponding Address

³Name of Institution 3
Corresponding Address

Author1@email, Author2@email, Author3@email

leave space for DOI, which will be inserted by ANS

ABSTRACT

Use 8.5×11 paper size, with 1” margins on all sides. A required 200-250 word abstract starts on this line. Leave two blank lines before “ABSTRACT” and one after. Use 11 point Times New Roman here and single (11 point) spacing. The abstract is a very brief summary highlighting main accomplishments, what is new, and how it relates to the state-of-the-art.

KEYWORDS: list of three to five key words

1. INTRODUCTION

Paper starts here with two blank lines before first section title. Use 8.5×11 paper size, with 1” margins on all sides. Use one blank line before and after each subsequent section’s title. Most of the formatting is globally set by the specifications given in the *physor2022.cls* file. First-level section titles must be all uppercase and centered, are **11 point font**, and must be numbered in Arabic numerals as shown above. Introduce the topic of your work in this section.

Do not indent the first line of a paragraph; rather add one blank line between paragraphs. Use Times New Roman font (and Symbol if needed) and **font size 11** for the main body of the paper. There are four types of reference styles: journal paper [1], proceedings paper [2], book [3], and website [4]. References to websites are discouraged, but acceptable if absolutely necessary. It is the author’s responsibility to check links in the Reference list of the PDF file of your paper. All references should be cited in the text in numerical order, in order of appearance as [5-7]. **Do not include bookmarks or hyperlinks to references, figures, and tables in the text of your paper in your final PDF document.**

The page limit for PHYSOR2022 papers is 10 pages. Paper with more than 10 pages will be rejected. Do not include page numbers.

*Footnote, if necessary, in Times New Roman font and font size 10

2. SECOND OR SUBSEQUENT MAJOR HEADING (FONT SIZE 11 POINT)

A logical division of your paper into sections, etc., makes it so much easier to understand. The style for subsection titles and all text in this template is defined in the *physor2022.cls* file. Make sure to **avoid widow/orphan** lines.

2.1. Subsection Title: First Character of Each Non-trivial Word is Uppercase (11 Point)

Double-space before and after secondary titles is automatic. Secondary titles should start flush left, and are numbered as illustrated above.

Equations, such as Eq. (1), should be centered and sequentially numbered to the flush right of the formula. Use Times New Roman or Euclid font with a font size 11 for the text variables and corresponding sizes proportionally for the subscripts and superscripts.

$$G_{\alpha_1\alpha_2}(f) = \frac{\nu_1}{\nu_2} e^{(i\omega\tau_{12})} G_{\alpha_1}(f) \quad (1)$$

The continuation of a paragraph after an equation is not indented. All paragraphs, section or subsection headings, as well as equations are separated by just one single empty line.

2.1.1. Sub-subsection level and lower: only first character uppercase (11 Point)

Figures and tables should appear as close as possible to where they are first cited, e.g., Fig. 1, in the text. Figures are numbered in Arabic numerals, with the caption centered below the figure, in **boldface**. For a better arrangement it is strongly recommended that all the figures must be placed in the “Figures” folder. Triple-space before the figure, and after the figure caption.

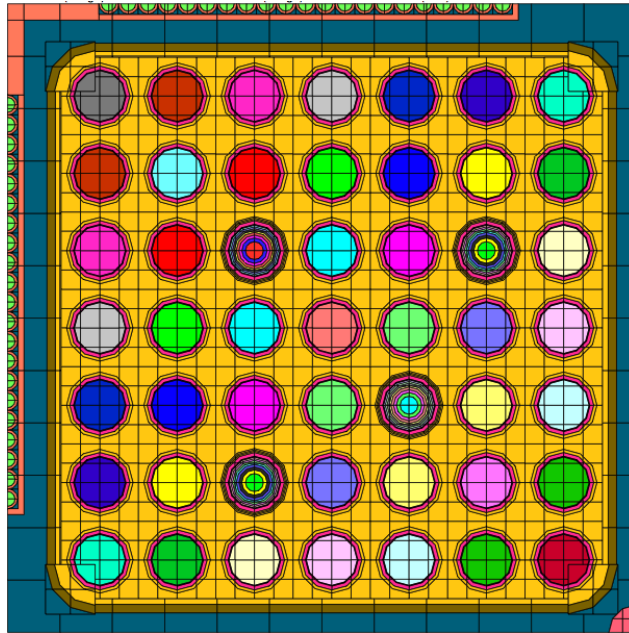


Figure 1: Model of a BWR Assembly. This Sample Figure is to Show an Example of a Figure and a Multi-line Caption

When importing figures or any graphical image please verify two things:

- Any number, text or symbol is in Times font and is not smaller than 10-point after reduction to the actual window in your paper;
- That it can be translated into PDF.

See Table I for a sample table. The “`tbls`” package is recommended for improved row and column spacing. Notice the caption appears above the table by setting the `\caption` command immediately after the `\begin{table}`. Tables are numbered in Roman numerals, with the caption centered above the table, in **boldface**. Triple-space before and after the table.

Table I: Transit time obtained with the modified reduced model

Measurement	APRM A (s)	APRM B (s)	APRM C (s)	APRM D (s)	Average (s)
1	0.3425	0.3396	0.3476	0.3428	0.3431
2	0.3455	0.3454	0.3454	0.3413	0.3444
3	0.3254	0.3322	0.3360	0.3269	0.3301
4	0.3165	0.3170	0.3170	0.3279	0.3196
5	0.3373	0.3360	0.3413	0.3292	0.3360
6	0.3298	0.3235	0.3151	0.3262	0.3236
Average	0.3328	0.3323	0.3337	0.3324	0.3328
Std Deviation	0.0110	0.0105	0.0143	0.0076	0.0102
Std Deviation/Average%	3.31%	3.16%	4.28%	2.28%	3.06%

Use SI Units. Conventional (non-SI) quantities may follow parenthetically if the author desires.

3. CONCLUSIONS

Present your summary and conclusions here.

NOMENCLATURE (IF NEEDED)

If variables are extensively used in the text, a Nomenclature section would be helpful to the readers.

ACKNOWLEDGEMENTS

This template was adapted from the template for PHYSOR 2020 posted on the Internet. Acknowledge the help of colleagues, and sources of funding, if you wish.

As an example: The format for this template was adapted from the \LaTeX template for the PHYSOR-2020 conference posted and available on the Internet and most of the \LaTeX format definitions contained were already defined.

REFERENCES

- [1] B.C. Author(s), “Title of the Journal Paper,” *Journal Name in Italic*, **Volume in Bold** (followed by the issue number in parentheses if known, see Ref. 5 below), pp. 34-89 (2007).
- [2] D. E. Author(s), “Article Title,” *Proceedings of Meeting in Italic*, Location, Dates of Meeting, Vol. 31, pp. 134-156 (2020).
- [3] F. G. Author, *Book Title in Italic*, Page or Chapter Numbers, Publisher, City and Country (1995).
- [4] “NEAMS Update,” <http://www.ne.anl.gov/pdfs/NEAMS/NEAMSQuarterlyReport10-2014.pdf> (2014).
- [5] M. Ishii and S. Kim, “Development of One-group and Two-group Interfacial Area Transport Equation,” *Nucl. Sci. Eng.* **146**(3), pp. 257-273 (2004).
- [6] R.P. Martin and C. Frepoli, “Physical Systems for Regulatory Investigation: Part II Evaluation Methodology,” *Proceedings of 2014 International Topical Meeting on Advances in Thermal Hydraulics (ATH’14)*, Reno, Nevada, June 15–19, 2014 pp. 15-24 (2014).
- [7] S. Glasstone and W.H. Jordan, *Nuclear Power and Its Environmental Effects*, pp. 50, American Nuclear Society, La Grange Park, Illinois, USA (1980).

List references according to their first use in the paper. Include the previous information (as applicable). Do not include these sentences in the full paper

APPENDIX A. Sample Appendix

If necessary, include Appendices numbered in upper case alphabetical order. This is APPENDIX A.

In order to ensure a uniform, professional look to the proceedings, please ***do not modify*** the format of this template without checking with the organizers first.