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I. INTRODUCTION

This template uses styles. It can be useful to display the Styles Pane when formatting your manuscript. Using the styles (and being careful not to modify or redefine them) will help ensure correct formatting. The first Heading of your manuscript must use the style “INTRODUCTION.” Otherwise, your paragraph spacing will be off. The body text should use the style “Paragraph”.

Times New Roman 10 point font is used throughout the paper with single line spacing and the text is fully justified. Paragraph style: indent first line three spaces (0.19”); there is no extra line spacing between paragraphs. This is the standard font and layout for the individual paragraphs.

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Headers should have a 12pt space before and a 6pt space after each heading. If a sub-heading immediately follows a heading, set the before spacing on the sub-heading to 0. See the III A. sub-heading in this document for an example.

PERC proceedings submissions are limited to 4 pages. **However, the title page does not count against that amount. Furthermore, the references do not count against that limit either.** Note that reference citations use on-line (not superscript) numerals in square brackets; these are spaced away from the preceding word or symbol, and are placed inside punctuation.

Information about the style of paper and answers to other submission questions can be found on the PER–Central website [1].

The introduction should clearly explain the nature and scope of the research as well as provide the reader with a roadmap of the rest of the paper.

II. FIRST LEVEL HEADING IN ALL CAPS

The second and subsequent top-level headings should use the “HEADING 1” style and all-caps. If you need to insert a hard line break within the paragraph, please use “Shift”+”Enter”, rather than just the “Enter” key.

A. Second level heading (heading 2) with only the first word capitalized

Use the appropriate style for each level of sub-header. Note that first level headings are enumerated with Roman numerals (I, II, etc.); second level headings with capital letters (A, B, etc.); third level headings with Arabic numerals (1, 2, etc.). Lorem ipsum dolor sit amet, sit ne mazim molestie constituto, eam ei probatus ullamcorper. Vim malorum salutatus et, sea ex tation doctus iuvaret. Mea id perpetua iudicabit concludaturque, qui epicurei tincidunt intellegam et.



FIG. 1. Figure captions appear below the figure. They are centered if they run one line only, and justified if they are multi-line.

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Figures, tables, and equations must be inserted in the text and may not be grouped at the end of the paper. Important: miscounting of figures, tables, or equations may result from revisions. Please double check the numbering of these elements before you submit your paper to the volume editor. If your manuscript contains figures, they are typically placed in one column (see Fig. 1). A large figure might span two columns (see Fig. 2). Cite all figures in the text consecutively. The word “Figure” should be spelled out if it is the first word of the sentence and abbreviated as “Fig.” elsewhere in the text. Place the figures as close as possible to their first mention in the text at the top or bottom of the page.

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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 (like Table I). Center the table in the width of the text area, and center the caption as well.

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III. OTHER ISSUES

A. Copyright transfer

All accepted papers will be made available under a

TABLE I. Table captions appear above the table.

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Row	x	x
Row	x	x
Row Your Boat	x	x



FIG. 2. A 2-column figure. Center figure captions if they run one line only, and justify captions if they are multi-line. Since the rest of the paper is two-column, figures or table that span two-columns need to be in their own section. To do this in Word, insert **two** section breaks (either next page or continuous, as needed). In between these section breaks, change the format from two-column to one-column. Put the figure or table in the one-column section.

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B. Citations

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Note that for the first time in 2019, we allow references to go beyond the fourth page. As we no longer constrain the length of the references, you should include titles in your citations as you typically would in *Phys. Rev. PER*. A pair of section breaks (continuous, without page breaks) are used to contain the one-column horizontal line and “reset” the columns for the references.

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IV. CONCLUSIONS

This template was newly updated for the 2019 PERC Proceedings. The editors apologize if any errors exist, and encourage you to contact them with changes and other suggestions.

ACKNOWLEDGMENTS

The acknowledgements section should have a first-level heading; note that it is not enumerated. This section is optional; if included, one paragraph is suggested, with acknowledgment of financial support listed at the end. Put references below the acknowledgements (and appendixes, if any).

[1] <http://www.per-central.org/perc/AuthorSubmission.cfm>. Retrieved 6/20/2015.
[2] <http://journals.aps.org/files/styleguide-pr.pdf>. Retrieved 5/5/2016.
[3] J.M. Smith and R. Brown, *Phys. Rev. B* 26, 1 (1982).
[4] J.M. Smith, *Molecular Dynamics* (Academic, New York, 1980), Vol. 2, p. 20.

[5] J.M. Smith, in *Proceedings of the International Conference on Low Temperature Physics, Madison, 1958*, edited by C. Brown (University of Wisconsin, Madison, 1958), p. 201.
[6] J.M. Smith, Ph.D. thesis, Brown University, 1980.