

## Guidelines for Abstract Preparation for EDISON 23 (Bold, 12 point, Times or Times New Roman)

J. J. Heremans<sup>1</sup>, T. Blomhad<sup>2</sup> and V. G. Soghomonian<sup>1</sup> (11 point, Times or Times New Roman)

<sup>1</sup>*Department of Physics, Virginia Tech, Virginia, USA*

<sup>2</sup>*Department of Materials Science, Klow University, Syldavia (11 point, Italic, Times or Times New Roman)*

heremans@vt.edu (11 point, Times or Times New Roman)

A **one-page abstract** should be prepared on a letter size paper (8.5 by 11 in) with 1 in margins all around and **uploaded in pdf format**. Templates are provided in LaTeX and Word format. Authors who prefer a different typesetting system, please adhere to the given guidelines. Please do not change the style of the abstract (font types, sizes, spacings, margins, etc.). The submission deadline is **March 21, 2025**.

The abstract should include the title of the paper, author(s), affiliation(s), address(es) and the email address of the corresponding author. In the title capital letters should be used for the initial letter of each word except articles, prepositions and conjunctions. The main text should be typed single-spaced and at 11 point. The numbered list of references should appear at the end of the abstract. When referring to references in the text, the reference number should be indicated by brackets, such as [1, 2]. Figures can be included. They should be numbered consecutively and accompanied by a figure caption in 10 point below the figure. Please do not generate page numbers.

When submitting your abstract, you will need to upload your pdf file in the Attachments box. You will also need to indicate the following: a) the title of your presentation; b) one author name, affiliation, **email** etc. The email address will be used to send confirmation of submission and other important correspondence. This author can be the corresponding author, speaker, etc. You can indicate information for multiple authors but don't have to (authors are on the abstract); c) your preference for an oral or a poster presentation; d) the topic category which is most appropriate for your abstract:

1. Nonequilibrium electronic and thermal transport in materials, nanostructures and devices
2. Terahertz phenomena in materials and devices
3. Mesoscopic transport phenomena
4. Electronic and optical properties of low-dimensional systems, including 2D materials and their heterostructures
5. Fluctuations and noise in nonequilibrium carrier dynamics
6. Carrier and phonon dynamics, including for quantum and sensor/detector technologies
7. Carrier dynamics in ultrafast optical phenomena
8. Spintronics, spin coherence, and magnetization dynamics
9. Electronic properties, optical properties, and phase transitions of topological materials and devices
10. Charge dynamics in energy conversion and energy harvesting processes
11. Interaction of charges with plasmonic, phononic and mechanical excitations

### References

- [1] L. P. Bouckaert, R. Smoluchowski, and E. Wigner, *Phys. Rev.* **50**, 58 (1936).  
[2] M. S. Dresselhaus, and J. G. Mavroides, *Solid State Commun.* **2**, 297 (1964).



Fig. 1. EDISON 23 logo (caption 10 point, Times or Times New Roman)