JACoW STYLE TEMPLATE FOR LaTeX*

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Abstract

The abstract itself is to act as a stand-alone entity and, as such, should not include citations, references to pictures, nor footnotes. Any acronyms should be expanded on their first occurrence, both in the abstract and in the rest of the paper.

MANUSCRIPTS

This short document demonstrates the use of the JACoW formatting style in LaTeX, highlighting the template's key features. It is intended to help authors quickly create a correctly formatted JACoW manuscript in LaTeX. Authors are expected to be familiar with the contents of the "JACoW Style Guide" document (`jacow_latex_style_guide`), which is available on the JACoW website.

Headings

Title and section headings are automatically converted to uppercase, therefore the author must ensure that all units and acronyms with mixed case writings (keV, MeV, GHz, µs, SwissFEL, SuperKEKB, FCC-hh) are correctly typeset (see use of macro `\NoCaseChange{text}` in above title). The plural of proper nouns and acronyms in uppercase has to be a LOWERCASE "s" (e. g. LINACs, PLMs).

Figures and Tables

Figures and tables should be placed as close as possible to where they are mentioned. Each figure and table must be numbered in ascending order (1, 2, 3, etc.) throughout the paper. The lettering in figures and tables must be large enough to be reproduced clearly.

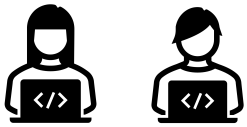


Figure 1: Example of figure inclusion. The caption should have a period "." at the end.

When referring to a figure from within the text, the convention is to use the abbreviated form (e. g., Fig. 1) *unless* the reference is at the start of the sentence. Reference to a table, however, is never abbreviated (e. g., Table 1). As a matter of style, authors are advised not to begin any sentence with an abbreviation or a number.

Table captions are typically composed as a heading, with the initial letters of principal words capitalized and without a period at the end. A description of the table contents should be confined to the text of the paper and not in the table caption.

Table 1: Table Heading

Column 1	Column 2 [mm]	Column 3 [GeV]
Attribute A	100.2	20.3
Attribute B	137.0	~9.1

Equations

Equations with numbers do not need to be referenced (the number can be suppressed using `\nonumber`):

$$C_B = \frac{q^3}{3\epsilon_0 mc} = 3.54\,\mu\text{eV/T}\,. \tag{1}$$

Units

Units should be written using `\qty{value}{unit}` or `\num{value}` of the "siunitx" package as shown in Eq. (1). Some examples are: 3 keV, 100 kW, 7 µm.

References

In the interest of promoting complete and uniform citations, the IEEE Editorial Style for Transactions and Journals has been adopted. References [1, 2] exemplify this style. When citing a periodical, use the ISO 4 standard for abbreviating journal names. Please refer to Annex C of the "Style Guide for JACoW Conference Papers" for examples. Authors are responsible for paying attention to the details of the style to ensure their references are accurate, and properly formatted. Each paper published in recent JACoW proceedings has been assigned a digital object identifier (DOI). Including a DOI in a reference facilitates importing references into bibliographic databases and is strongly recommended. Furthermore, hyperlinks to DOIs are required, while links to non-DOI URLs are prohibited. JACoW conferences that stipulate a page limit typically exempt the reference section from this requirement.

CONCLUSION

This short document illustrates the use of the JACoW format style, which is described in detail in the Style Guide.

REFERENCES

[1] A. Alpha and B. T. Beta, "Novel techniques for future TeV electron accelerators", in *Proc. 14th Int. Part. Accel. Conf. (IPAC'23)*, Venice, Italy, May 2023, pp. 57–59. doi:10.18429/JACoW-IPAC2023-PAPERID

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[2] A. Alpha *et al.*, "A new 12 GHz electron linear accelerator", *Nucl. Instrum. Methods Phys. Res. A*, vol. 12, no. 6, pp. 127–136, 2024. doi:10.1016/j.nima.2024.170083