

Instructions for authors

Article categories

EPJ A publishes **Regular Articles**, which are original research papers that report results in the domain of Hadrons and Nuclei. Besides them, EPJ A publishes also Letters, Tools for Experiment and Theory/Scientific Notes and Reviews.

- **Letters:** must describe new and original work deserving rapid publication. Their aim is fast and concise communication of important topical results. Letters should not exceed 4 printed pages in the EPJ style format and should contain no more than 4 figures and/or tables. A Letter may well be followed by one or more Regular Articles containing additional details. Letters will, by default, be published with immediate **Open Access** without incurring any fee.
- **Tools for Experiment and Theory/Scientific Notes:** are articles presenting original and new developments of particle detectors, readout electronics, computational methods or analysis tools. Papers that describe experimental apparatuses fall into this category. An important subgroup are **Scientific Notes**, typically based on internal notes of experimental collaborations, detailing specific aspects of importance for understanding and assessing the physics results presented in large collaboration papers.
- **Reviews:** are by invitation only through the Editorial Board. There is no general limitation of the overall size; they may contain but must not be limited to original work. Reviews will fall into one of the following categories: 1) Traditional reviews comprehensively summarizing a broader field or topic within the *Aims and Scopes*. One of their main assets will be a definitive and representative bibliography. 2) Reviews on a newly emerging field, providing an up-to-date synthesis and an extended discussion of the open questions. 3) Outstanding thesis or working reports.

The submission stage

Authors are asked to **submit** their paper **electronically** through the website:

<http://mc.manuscriptcentral.com/epja>

As "Main Document" **ONLY ONE of the following files: PS, DOC, PDF, IS REQUIRED** at this stage. Detailed instructions and on-line help (**User Tutorials** link) are available step by step, you simply should follow them carefully.

Exceptionally, for authors who do not have access to the web, we also accept a hard copy to be sent to the following address:

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Società Italiana di Fisica
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How to prepare a manuscript

There is no general limitation of the overall size nor of the number of figures, nor of the level of details considered to be necessary. However, the appropriate length of a manuscript depends on the information presented in the paper. A manuscript should consist of the following content.

Title

The title should be simple, concise and informative with only the first word capitalized. A shortened version of the title consisting of a maximum of 75 characters (including spaces) for running headers should also be provided.

Author(s) name(s) and affiliation(s)

A list of all authors, as well as corresponding addresses, should be provided. Each address should be preceded by a numerical superscript corresponding to the same superscript after the name of the author concerned. Addresses should contain all information necessary for an effective mail delivery. E-mail should also be provided to speed up communication between readers and authors. This information will be published unless authors request otherwise.

Abstract

An abstract should accompany each manuscript; it should be completely self-consistent (e.g., with no figure, table, equation or reference citations), not exceeding 200 words and written as a single paragraph. Mathematical expressions should be avoided, if possible.

Classification numbers

Starting from 2010 PACS numbers are not required since they are no longer published in EPJ journals.

Main body of the paper

The body of the paper could be divided into sections. Sections should be numbered with arabic (not roman) numerals. Subsections (second level) should be numbered 1.2, 1.3, etc., and sub-subsections (third level) 1.1.1, 1.1.2, etc. Appendices should be numbered A, B, etc. All sections must have a short descriptive title, in which only the first word should be capitalized. Equations, tables, figures, and references should follow a sequential numerical scheme in order to ensure a logical development of the subject matter. Standard copy-editing corrections are inserted by the Production Staff. For details, see the internationally agreed standards adopted by the International Union of Pure and Applied Physics (IUPAP) or defined by the International Organization of Standardization (ISO). However, sticking to the following main rules shall hasten the production procedure.

- Whichever spelling you choose (British or American English) please be consistent throughout.
- Use hyphens consistently and avoid unnecessary ones.
- The words "section(s)", "equation(s)", "figure(s)" and "reference(s)" are abbreviated as "sect(s).", "fig(s).", "eq(s).", and "ref(s).", unless they are the first word of a sentence. The word "table" is always written in full.
- Latin expressions, such as, e.g., *i.e.*, *et al.*, *versus* (*vs.*) should be set in italic.
- Chemical formulas, units of measure and acronyms should be set in roman.
- Mathematical symbols should be set in italic except:
 - differentials,
 - standard mathematical functions (exp, log, sin, cos, ...),
 - Im and Re for imaginary and real.
- Roman is preferred also for
 - sub and superscripts to variables that stand as a label (R_{gYr} , b^{out} , ...),
 - particles, subparticles, quarks, etc., but if you use italic be consistent throughout.
- Vectors and tensors should be set in bold and sans-serif bold, respectively.
- Long exponential equations are better set as $\exp(\dots)$ instead of e^{\dots} .
- For fractions in the text use the solidus putting only the parentheses necessary to avoid ambiguities.
- For normal units use the standard SI abbreviations (e.g., s instead of seconds, ...).

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There are 3 main types of footnotes:

- 1 Introductory footnotes (referring to new addresses of authors, address of corresponding author, ...) indicated by superscript lower case letters.
- 2 Footnotes to text material, which should be kept to a minimum, and which should be designated by a numerical superscript: ¹, ², ³, etc. They should be placed at the foot of the relevant page.
- 3 Footnotes to tables, which should be indicated by superscript lower case letters and placed in a list immediately below the concerned table.

Acknowledgments and appendices

The acknowledgments section should follow the main body of the paper and should precede any appendix. Appendices, especially if more than one, should be labelled A, B, etc. (Appendix A or Appendix A. Complex developments, when there is a title). Equations in the appendices should be numbered consecutively, but separately from those in the main body of the paper (A.1), (A.2), etc. In each appendix equations should be numbered separately (B.1), (B.2), etc.

References

References are quoted with arabic numerals in square brackets in order of appearance in the text. Literature citation of periodicals [1-3], books [4], proceedings [5] and preprints [6] should be organized according to the following examples. Note that journal names should be abbreviated according to the list of serial title word abbreviation of the ISDS (International Serial Data System) if available, otherwise full journal names are preferable.

1. J.M. Smith, R. Brown, C. Green, *Eur. Phys. J. A* **1**, 123 (2008).
2. J.M. Smith *et al.*, *Z. Phys. A* **4**, 123 (1997).
3. J.M. Smith *et al.*, to be published in *Nuovo Cimento B*.
4. J.M. Smith, *Molecular Dynamics*, 2nd ed. (Springer, Berlin, Heidelberg, 1987).
5. J.M. Smith, *Proceedings of the 9th GIFCO Conference, Lecce, 2000*, edited by S. Aiello, Vol. **68** (SIF, Bologna, 2000).
6. J.M. Smith, DESY 98-123, 1998, unpublished.

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Electronic multimedia files (animations, movies, audio, etc.) and other supplementary information (appendices, (large) tables, images, etc.) which can add dimension to the author's article and present results which cannot be printed or are more convenient in electronic form can be published on-line along with the article.

- Authors should submit the material in electronic format together with the article:
 - use standard file formats: MPEG-1 (.mpg) for audio, video and animations; PDF for text and presentations,
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The Editor-in-Chief will send an acceptance letter to the corresponding author and, at the same time, will ask for electronic files of the final text and figures to be sent to:

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Guidelines for submission after acceptance

Source (.tex, .doc, ...) files for the production plus a Postscript or PDF file corresponding to the **final** accepted version of your manuscript should be sent to the Editorial and Production office (even if your article had been previously submitted electronically).

File formats

Text

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a **manuscript**. The macro package is available at
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- or via anonymous ftp from the <ftp://ftp.servers:>

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No customized or personal style files should be used. Also, no particular fonts should be used (authors are reminded that the journal will be printed with Computer Modern (CM) standard fonts). In any case, the $\mathcal{A}\mathcal{M}\mathcal{S}\text{-}\mathcal{L}\mathcal{T}\mathcal{E}\mathcal{X}$ package, that defines several environments for creating multiline display equations, may be used. For manuscripts prepared with Word authors should be aware that only the text will be processed and that mathematical symbols and equations will be re-typed in \LaTeX by the Production Staff.

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