INSTRUCTIONS FOR TYPESETTING MANUSCRIPTS[*]

FIRST AUTHOR[†]

University Department, University Name, Address
City, State ZIP/Zone,Country [‡]
author_id@domain_name[§]

SECOND AUTHOR

Group, Laboratory, Address
City, State ZIP/Zone, Country
author_id@domain_name

The abstract should summarize the context, content and conclusions of the paper in less than 200 words. It should not contain any reference citations or displayed equations. Typeset the abstract in 8 pt roman with baselineskip of 10 pt, making an indentation of 0.25 inches on the left and right margins.

Keywords: Keyword1; keyword2; keyword3.

Mathematics Subject Classification 2000: 11xxx, 11xxx, 11xxx

1. General Appearance

Contributions to the *International Journal of Number Theory* will be processed by using the authors' source files. The format of the files must be Latex/Tex. These should be submitted with the manuscripts, and resubmitted in the final form if a paper requires revision before being accepted for publication.

2. The Main Text

Authors are encouraged to have their contribution checked for grammar. American spelling should be used. Abbreviations are allowed but should be spelled out in

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[*]For the title, try not to use more than 3 lines. Typeset in 10 pt roman, uppercase and boldface.
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full when first used. Integers ten and below are to be spelled out. Italicize foreign language phrases (e.g. Latin, French).

The text should be in 10 pt roman, single spaced with baselineskip of 13 pt. Text area (including copyright block) is 8 inches high and 5 inches wide for the first page. Text area (excluding running title) is 7.7 inches high and 5 inches wide for subsequent pages. Final pagination and insertion of running titles will be done by the publisher.

3. Running Heads

Please provide a shortened running head (not more than eight words) for the title of your paper. This will appear on the top right-hand side of your paper.

4. Footnotes

Footnotes should be numbered sequentially in superscript lowercase roman letters.[a]

5. Major Headings

Major headings should be typeset in boldface with the first letter of important words capitalized.

5.1. *Sub-headings*

Sub-headings should be typeset in boldface italic. Capitalize the first letter of the first word only. Section number to be in boldface roman.

5.1.1. *Sub-subheadings*

Typeset sub-subheadings in medium face italic and capitalize the first letter of the first word only. Section numbers to be in roman.

5.2. *Numbering and spacing*

Sections, sub-sections and sub-subsections are numbered in Arabic. Use double spacing before all section headings, and single spacing after section headings. Flush left all paragraphs that follow after section headings.

5.3. *Lists of items*

Lists may be presented with bullets or numbers.

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[a]Footnotes should be typeset in 8 pt roman at the bottom of the page.

5.3.1. *Bulleted items*

- First item in the first level
- Second item in the first level

    - First item in the second level
    - Second item in the second level

        * First item in the third level
        * Second item in the third level

    - Third item in the second level
    - Fourth item in the second level

- Third item in the first level
- Fourth item in the first level

5.3.2. *Numbered items*

(1) First item in the first level
(2) Second item in the first level

   (a) First item in the second level
   (b) Second item in the second level

      (i) First item in the third level
      (ii) Second item in the third level
      (iii) Third item in the third level

   (c) Third item in the second level
   (d) Fourth item in the second level

(3) Third item in the first level
(4) Fourth item in the first level

6. Equations

Displayed equations should be numbered consecutively within a section, with the number set flush right and enclosed in parentheses:

$$\mu(n,t) = \frac{\sum_{i=1}^{\infty} 1(d_i < t, N(d_i) = n)}{\int_{\sigma=0}^{t} 1(N(\sigma) = n)d\sigma} \,. \tag{6.1}$$

In multiple-line equations, the number should be given on the last line. Displayed equations are to be centered on the page width. Punctuation marks are used at the end of equations as if they appeared directly in the text.

Equations should be referred to in the abbreviated form, e.g. "... in Eq. (6.1)" or "... in (6.1)" or "... in Eqs. (6.1) and (6.2)". Where the word "Equation" begins a sentence, it should be spelled in full.

7. Theorem Environments

Theorem 7.1. *Theorems, lemmas, corollaries, propositions, remarks, examples, etc. are to be numbered consecutively within a section. Use an extra one line space before and after each theorem, lemma, etc.*

Lemma 7.2. *The headings are in boldface; the statements of theorem, lemmas, corollaries and propositions in italics, and the remarks and examples in roman.*

Proof. The heading is in boldface, while the proof is in roman. Proofs should end with a box. $\qquad\square$

8. Illustrations and Photographs

Figures are to be inserted in the text nearest to their first reference. Softcopies of illustrations are to be in either EPS, PS or TIF format, preferably on a PC platform. Please prepare in 300 dpi for line drawings (black and white); 300 dpi for halftones (gray scale); 300 dpi for colour images. Must be in CMYK (Cyan, Magenta, Yellow and Black) for colour separation. If the author requires the publisher to reduce the figures, ensure that the figures (including letterings and numbers) are large enough to be clearly seen after reduction. If photographs are to be used, only black and white ones are acceptable.
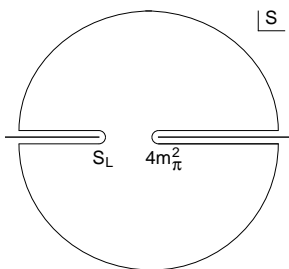

Fig. 1. A schematic illustration of dissociative recombination. The direct mechanism, $4m_\pi^2$ is initiated when the molecular ion S_L captures an electron with kinetic energy.

Figures are to be numbered sequentially in Arabic numerals. The caption must be placed below the figure. Typeset in 8 pt roman with baselineskip of 10 pt. Use double spacing between a caption and the text that follows immediately.

Previously published material must be accompanied by written permission from the author and publisher.

Figures should be referred to in the abbreviated form, e.g. "... in Fig. 1" or "... in Figs. 1 and 2". Where the word "Figure" begins a sentence, it should be spelled in full.

9. Tables

Tables should be inserted in the text as close to the point of reference as possible. Some space should be left above and below the table.

Tables should be numbered sequentially in the text in Arabic numerals. Captions are to be centralized above the tables. Typeset table text and captions in 8 pt roman with baselineskip of 10 pt.

Table 1. Comparison of acoustic for frequencies for piston-cylinder problem.

Piston mass	Analytical frequency (Rad/s)	TRIA6-S_1 model (Rad/s)	% Error
1.0	281.0	280.81	0.07
0.1	876.0	875.74	0.03
0.01	2441.0	2441.0	0.0
0.001	4130.0	4129.3	0.16

If tables extend over to a second page, the continuation of the table should be preceded by a caption, e.g. "Table 2. (Continued)".

Acknowledgments

This section should come before the References. Dedications and funding information may also be included here.

Appendix A. Appendices

Use only when absolutely necessary. They should come before the References. If there is more than one appendix, number them alphabetically. Number displayed equations occurring in the Appendix as follows: (A.1), (A.2), etc.

$$\mu(n,t) = \sum_{i=1}^{\infty} 1(d_i < t, N(d_i) = n) \int_{\sigma=0}^{t} 1(N(\sigma) = n) d\sigma \,. \qquad (A.1)$$

References

References are to be listed in alphabetical order of the author's name and cited in the text in Arabic numerals within square brackets. They can be referred to indirectly, e.g. "... in the statement [2]." or used directly, e.g. "... see [2] for examples." List references using the style shown in the following examples. For journal names, use the standard abbreviations. Typeset references in 9 pt roman.

References

[1] A. Alekseev, A. Malkin and E. Meinrenken, Lie group valued moment maps, *J. Differential Geom.* **48**(3) (1998) 445-495.

[2] F. Bouchut, On zero pressure gas dynamics, in *Advances in Kinetic Theory and Computing*, ed. B. Perthame, Ser. Adv. Math. Appl. Sci., Vol. 22 (World Scientific, 1994), pp. 171–190.

[3] S. K. Godunov and E. Romenskii, *Elements of Continuum Mechanics and Conservation Laws* (Kluwer Academic/Plenum Publishers, 2003).

[4] J. Li and T. Zhang, On the initial-value problem for zero-pressure gas dynamics, in *Proc. 7th Intl. Conf. on Hyperbolic Problems*, ed. R. Jeltsch (Birkhauser Verlag, 1998), pp. 629–640.