

International Journal of Modern Physics A
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INSTRUCTIONS FOR TYPESETTING MANUSCRIPTS*

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The abstract should summarize the context, content and conclusions of the paper in less than 200 words. It should not contain any references or displayed equations. Typeset the abstract in 8 pt roman with baselineskip of 10 pt, making an indentation of 1.5 pica on the left and right margins.

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1. General Appearance

Contributions to *International Journal of Modern Physics A* are to be in American English. Authors are encouraged to have their contribution checked for grammar. American spelling should be used. Abbreviations are allowed but should be spelt out in full when first used. Integers ten and below are to be spelt out. Italicize foreign language phrases (e.g. Latin, French). Upon acceptance, authors are required to submit their data source file including postscript files for figures.

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2. Running Heads

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

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

3.1. *Subheadings*

Subheadings should be typeset in boldface italic and capitalize the first letter of the first word only. Section number to be in boldface roman.

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

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Sections, subsections and subsubsections 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.

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Lists may be laid out with each item marked by a dot:

- item one,
- item two.

Items may also be numbered in lowercase roman numerals:

- (i) item one,
- (ii) item two.
 - (a) Lists within lists can be numbered with lowercase roman letters,
 - (b) second item.

4. Equations

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

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

Equations should be referred to in abbreviated form, e.g. “Eq. (1)” or “(2)”. In multiple-line equations, the number should be given on the last line.

Displayed equations are to be centered on the page width. Standard English letters like x are to appear as x (italicized) in the text if they are used as mathematical symbols. Punctuation marks are used at the end of equations as if they appeared directly in the text.

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Theorem 5.1. *Theorems, lemmas, propositions, corollaries are to be numbered consecutively in the paper or in each section. Use italic for the body and upper and lower case boldface, for the declaration.*

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Proof. The word ‘Proof’ should be type in boldface. Proofs should end with a box. □

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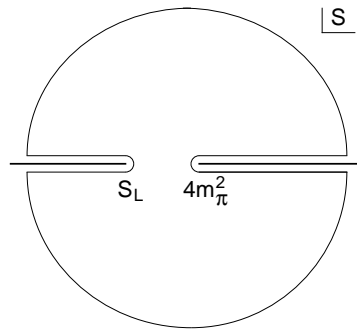


Fig. 1. A schematic illustration of dissociative recombination. The direct mechanism, $4m_\pi^2$ is initiated when the molecular ion S_L captures an electron with kinetic energy.

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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.

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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 need to extend over to a second page, the continuation of the table should be preceded by a caption, e.g. “Table 2. (*Continued*)”.

8. Footnotes

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

Acknowledgments

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

Appendix A. Appendices

Appendices should be used only when absolutely necessary. They should come before the References. If there is more than one appendix, number them alphabetically.

^aFootnotes should be typeset in 8 pt roman at the bottom of the page.

Number displayed equations occurring in the Appendix in this way, e.g. (A.1), (A.2), etc.

$$\begin{aligned} g_{\mu_1\mu_2} &= g_{axy} = -\epsilon_{abc}4\pi \frac{(x-y)^c}{|x-y|^3}, \\ h_{\mu_1\mu_2\mu_3} &= \epsilon^{\alpha_1\alpha_2\alpha_3} g_{\mu_1\alpha_1} g_{\mu_2\alpha_2} g_{\mu_3\alpha_3} \end{aligned} \quad (\text{A.1})$$

with

$$\epsilon^{\alpha_1\alpha_2\alpha_3} = \epsilon^{b_1y_1b_2y_2cx} = \epsilon^{b_1b_2c} \delta(x-y_1) \delta(x-y_2). \quad (\text{A.2})$$

Appendix B. References

References are to be listed in the order cited in the text in Arabic numerals. They should be listed according to the style shown in the References. Typeset references in 9 pt roman.

References in the text can be typed in superscripts, e.g.: "... have proven³⁻⁵ that this equation ...” or after punctuation marks: "... in the statement.⁵” This is done using LaTeX command: “\cite{name}”.

When the reference forms part of the sentence, it should not be typed in superscripts, e.g.: “One can show from Ref. 3 that ...”, “See Refs. 1-3, 5 and 7 for more details.” This is done using the LaTeX command: “Ref.~\refcite{name}”.

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