

# ROMANIAN REPORTS IN PHYSICS MANUSCRIPT TEMPLATE

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Key words: Superheavy nuclei, fusion reactions, cross-section.

## 1. INTRODUCTION

Selected papers from the 16th International Conference on Plasma Physics and Applications will be included in a Topical Issue of the Romanian Reports in Physics (ISI impact factor in 2013 of 1.123), upon regular refereeing process.

**Please note that maximum two papers can be submitted for publication per one registered participant.**

Please make sure that the contribution you are intending to submit for publication in “ROMANIAN REPORTS IN PHYSICS” contains a single camera-ready paper copy (with figures, captions of figures, tables, etc., included in text) in \*.doc or \*.docx format. Please observe the following guidelines for the preparation of your manuscript.

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## 1.2 Figures

Insert the figures at their appropriate position within the paper using

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Measure units shall be mentioned in brackets, SI where required.

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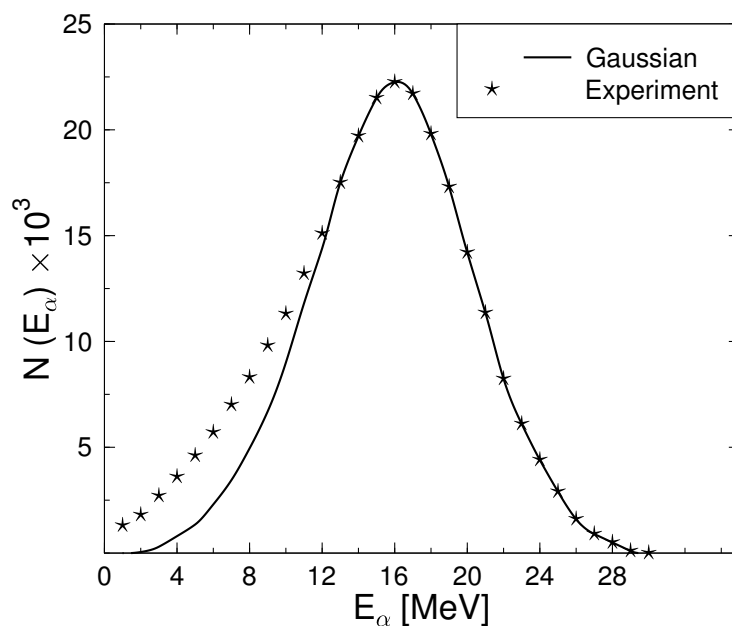


Fig. 1 - This is my first figure.

## 1.3 Tables

Tables shall be introduced at their appropriate place in the text. Landscape tables are not generally accepted so please contact the editor prior to including them into your paper. Table numbers shall be written using TIMES NEW

ROMAN, 9 pt, CENTERED. Table titles center aligned, below the number of the table, using Times NEW ROMAN, 9 pt, CENTERED. Introduce a blank line after the end of the table – 12 pt. The *Table Classic 1* style of this template was specifically modified to meet these requirements.

*Table 1*

The dynamic barriers,  $E_b$ , and logarithms of penetrabilities,  $\log_{10} P$ , for the energy valley in synthesis of superheavy nuclei

Reaction	$E_b$ [MeV]	$\log_{10} P$
$^{146}\text{Xe} + ^{152}\text{Nd}$	9.76	-24.855
$^{140}\text{Te} + ^{158}\text{Sm}$	9.80	-27.327
$^{140}\text{Xe} + ^{158}\text{Nd}$	10.46	-29.512
$^{138}\text{Sn} + ^{160}\text{Gd}$	12.09	-29.405
$^{138}\text{Te} + ^{160}\text{Sm}$	12.70	-30.563

#### 1.4 Equations

Equations may be written either with the Equation Editor or in the text mode using TIMES NEW ROMAN or/and SYMBOL fonts. Equations shall be preceded and followed by a blank line – 12 pt. Displayed equations shall be centered. Equations shall be numbered in parentheses, flush right, using TIMES NEW ROMAN, 11 pt.

$$i \frac{\partial \Psi}{\partial t} + \alpha \frac{\partial^2 \Psi}{\partial x^2} + \lambda |\Psi|^2 \Psi = 0 \quad (1)$$

The nonlinear Schrödinger equation presented above is an example of properly formatted equation (though the actual equation was converted into an image to offer better compatibility).

#### 1.5 Short Title

Short title shall be preceded by two blank lines – 24 pt. A short title of maximum 60 characters including blanks is suggested. It shall be written using TIMES NEW ROMAN, 9 pt, CENTERED. Short title shall be followed by a blank line 12 pt.

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- paper text should be typeset using the “Normal” style
- tables – “Table Classic 1”
- table captions – “Table Caption”
- figure captions – “Caption, Figure Caption”
- list of references – “[1] Reference List”

The names surrounded by double quotes are the style names written as similar as possible to how they appear in the Styles and Formatting listing.

References shall be written using TIMES NEW ROMAN, 9 pt, except the author names which shall be written using SMALL CAPITALS, and the title of books which shall be written using ITALIC/EMPHASIZED.

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- b) the manuscript, including the title, authors and affiliation, abstract, manuscript body with tables and figures included;

- c) statement letter containing the answers to the questions mentioned above.

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Within the text and at REFERENCES section, reference numbers shall be introduced within square brackets.

Please use the especially designed *Reference List* numbered list style for this section!

1. S. Hofmann, G. Münzenberg, *Rev. Mod. Phys.* **72**, 733 – 756 (2000).
2. K. Satou, H. Ikezoe, S. Mitsuoka, K. Nishio and S. C. Jeong, *Phys. Rev. C* **65**, 054602 (2002).
3. L. D. Landau, E. M. Lifshitz, *Fluid Mechanics*, Pergamon, London, 1959.