PAPER EXECUTION REQUIREMENTS

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OPTIMIZATION OF SOLID-PROPELLANT ROCKET PARAMETERS

Summary (Rus.)

Summary (Ukr.)

Summary (Eng.)

PAGE PARAMETERS

Sheet size A4 (210×297 mm). Margins: top – 25 mm, bottom – 15 mm, right – 15 mm, left – 25 mm. Front page of the paper has (in the left-hand top corner) UDC index – Times New Roman, 12 pt, ordinary, indents: from the bottom 12 pt.

AUTHORS

Font: Times New Roman, size – 12 pt, ordinary. Paragraph: center alignment; indents: from the bottom 12 pt, from the left, right and top – no; hyphenation shall be forbidden; paragraph shall not be broken; shall not be broken away from the next; line spacing – single.

PAPER TITLE

Font: Times New Roman, size – 14 pt, semi-bold, all letters – upper-case. Paragraph: center alignment; indents: from the bottom 12 pt, from the left, right and top – no; hyphenation shall be forbidden; paragraph shall not be broken; shall not be broken away from the next; line spacing – single.

SUMMARY

Summary (Rus., Ukr., Eng.) – font: Arial Cyr, 10 pt, ordinary, italics, justified alignment, first line indent from the left 0.5, indents: between summaries 6 pt, between the last summary and body text 12 pt.

BODY TEXT

Body text of the paper shall be executed in font Times New Roman, size – 12 pt. Text format – two-column. Paragraph: justified alignment, first line indent from the left 0.5, no indents from the top, bottom and right, line spacing – single, hyphenation, width of each column – 8 cm, column spacing – 1 cm.

SUB-HEADINGS

Sub-headings shall be executed as follows: font Times New Roman, size – 12 pt, semi-bold, ordinary. Paragraph: left alignment, left indent 0.5 (for the whole sub-title), indent from the top 12 pt, from the bottom 6 pt, no right indent. If sub-heading starts with the first line of the column, no indent from the top shall be.

TABLES

Table 1

Table name

Column name – font 8-12 pt	Column name – font 8-12 pt
Cell contents – font 8-12 pt	Cell contents – font 8-12 pt

The preferred table arrangement is in one column, at that the table width shall not exceed 8 cm. When necessary, the table arrangement across an overall width of the page is possible.

Font Times New Roman, 8-12 pt is used in tables. At that, it is recommended to select maximum font size (≤12pt) allowing for table visualizion, line spacing – single, without left and right indents. The word "Table" (font Times New Roman, 12 pt, ordinary) shall be written at the right above the table, and its serial number shall be indicated if there are several tables in the paper text. The interval is 12 pt between the body text and the word "Table". Table captions (names) shall be arranged above the table, on centre, font Times New Roman, 12 pt, ordinary, without left and right indent. The interval between the word "Table" and the table name shall be 6 pt. No indent shall be between the table and the table name. The interval between the last cell of the table and the text shall be 8 pt.

Be sure to cite a reference to all tables in the paper text.

FORMULAS

The preferred formula arrangement is in one column. When necessary, the formula arrangement across an overall width of the page is possible.

Use standard equation editor **Microsoft Equation 3.0 or MathType 6.0.** The basic requirements for the arrangement of formulas are as follows: on center, size of body font 12 pt; large in-dex 7 pt; small index 5 pt; large symbol 18 pt; small symbol 12 pt. Paragraph: in-dents from body text to the formula and from the formula to body text or legend shall be 6 pt, from legend to body text shall be 6 pt, no left and right indents.

If there is no text reference to the formula, it shall not be numbered. Formula number shall be put in parentheses on center relative to the formula flush right. Explanatory notes to the formula shall be given just after the formula next to the word "where":

$$E = mc^2, \qquad (1)$$

where E – energy; m – mass; c – light velocity.

$$2\mu \cdot \mathrm{ctg}(\beta|k|d) = (\mu_1 s)^2 + (\mu\beta)^2 - 1 + \\ + [(\mu\beta)^2 + (1 - \mu_1 s)^2]\exp\{-2|k|\Delta\}. \qquad (2)$$

An explanatory note to each symbol shall be indented in such sequence, in which symbols are given in the formula. If necessary, an explanatory note can be printed as straight text without the arrangement of each variable in new line.

REFERENCES TO LITERARY SOURCES

References shall be given in letterpress by way of mention in square brackets, specifying serial number and (if necessary) comma separated, with a number of the corresponding page, for example: [1, p. 25]. If several sources are indicated in the reference, they shall be executed comma separated in single brackets, for example: [1, 3, 6, 9], but with pages [1, p. 25; 3, p. 74; 6, p. 132].

PICTURES

The preferred picture arrangement is in one column, at that a width of the picture shall not exceed 8 cm. When necessary, the picture arrangement across an overall width of the page is possible.

Caption is required to each picture, specifying serial number (if more than one picture). It shall be placed at the bottom. The caption "Fig. 1. Figure name…" shall be given in font Times New Roman, 10 pt, ordinary, full-out, on center. Comma shall not be put at the end (absent legend, and colon shall be put with present legend). Format of figure captions (explanatory notes, numbering of axes and their name) shall comply with font Times New Roman, 8-10 pt, on center. The interval between the text and the picture shall be 12 pt, between the picture and caption – 6 pt, and no indent shall be from caption to an explanatory note to the picture (if any). The interval between the last line of caption or an explanatory note to the picture and the text shall be 6 pt. The picture caption shall not be wider that the picture. Font of an explanatory text in the picture caption shall be Times New Roman, 10 pt.
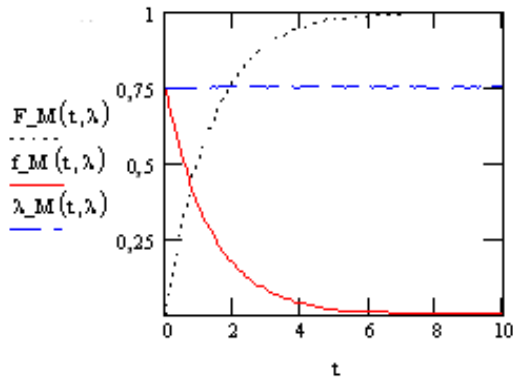
Fig. 1. Example graph:
$F\_M(t,\,\lambda)$ and $f\_M(t,\,\lambda)$ – function and density of
timing between events in flow; $\lambda\_M(t,\,\lambda)$ –
frequency of events in flow; $\lambda = 0.75$

Line and font parameters in figures are as follows:

– thickness of axes and marks – 0.25 mm;
– thickness of line connecting experimental points – 0.4 mm;
– thickness of base lines – 0.5 mm.

Filling, auxiliary divisions (as much figures as marks) are absent in the region of construction of diagram or graph, the diagram region is frameless. Name of axes shall be written in capitals.

Due to the fact that a collection is printed in black-and-while variant it is necessary to use stroke filling in place of color one in preparation of diagram.

Point graphics objects (photographs, etc.) shall be presented with resolution no worse than 300 dpi.

CONTENTS

Page parameters: text format – one-column. The heading "Contents" shall be printed in font Times New Roman, 12 pt, semi-bold, on center, indents: from the bottom – 12 pt.

The author's surname and initials shall be italicized. The author's surname and initials (after space) shall be followed by the paper title – Times New Roman, 12 pt, ordinary, across a width, indents: from the bottom – 6 pt. Page number shall be placed at the bottom line level, aligned right.

List of References

To be given at the end of the paper. List of references shall be printed in font Times New Roman, ordinary, 12 pt. Paragraph parameters are the following: the interline interval shall be single, list number and reference text shall be aligned left, indented 0.5.

The heading "List of References" (without comma or colon at the end) shall be arranged in the center of the line, font Times New Roman, 12 pt, semi-bold. The interval from the top (between the last text line and the heading "List of References") shall be 12 pt, from the bottom (till the first source) – 6 pt.

PAPER RECEIVED

"Paper received" shall be given after the paper at the end of the sheet. The arrangement – on center of the right column. Font Times New Roman, ordinary, 12 pt.

Credits

The surname, first name and patronymic. Position, place of employment (extended name of department). **Example:** Ivanov Ivan Ivanovich, Leading Research Officer of Experimental Testing Department, Yuzhnoye SDO.