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Sample paper for Dissertationes Mathematicae

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Abstract

This is a sample paper for Dissertationes Math.

Acknowledgements. The research of A. F. Nowak was partially supported by ???.

2020 Mathematics Subject Classification: Primary ???; Secondary ???.

Key words and phrases: sectioning, headings, references.

1. Introduction

This sample paper for Dissertations Math. is intended to facilitate the publication process. All papers submitted should be prepared using the `dis.cls` class file.

The publisher will create page proofs for final review by the author.

1.1. Page. The most important parameters are width and height: `\textwidth30cc` and `\textheight44cc`. The main text is set in 10pt roman, and reference lists, tables, footnotes and figure captions in 9pt roman.

1.2. Title. The title is set in boldface, and the authors' names in caps. The complete postal and e-mail addresses must be provided.

Subject classification numbers, key words and phrases, and acknowledgements will appear below the abstract. For the subject classification, use the 2020 Mathematics Subject Classification.

In the running heads, the authors' first names are replaced by initials, and the titles are strongly abbreviated. Provide an abbreviation of the title of no more than 40 characters. Write "A. Kowalska et al." if there are three authors or more.

1.3. Theorems, proofs and formulas. The statements of theorems, corollaries, lemmas and propositions are set in italics. In definitions, only the term being defined is italicized. Remarks and examples are set in roman type.

Here are some illustrations:

DEFINITION 1.1. A system S is said to be *self-extensional* if $S \in B$.

REMARK. An unnumbered remark.

MAIN THEOREM 1.2. *Here comes the statement of a numbered theorem with a fancy name.*

THEOREM 1.3 (Maximum Principle, see also [HD, Theorem 5]). *If (...), then the following conditions are equivalent:*

- (i) *first item,*
- (ii) *second item,*
- (iii) *third item.*

Proof. Observe that

$$\begin{aligned} AAAAAAAAAA &= BBBBBBBBBBBB \\ &+ CCCCCCCCCC \\ &= DDDDDDDDDDDDDDD. \end{aligned} \tag{1.1}$$

Now integrate by parts in the last term of (1.1). ■

Formulas can be right- or left-numbered. For many examples of codes of complicated multiline formulas, see <http://journals.impan.pl> (“For authors”).

If you want to put the end-of-proof sign after a formula, use `\proof` and `\sq` instead of `\begin{proof}` and `\end{proof}`:

Proof. This follows from

$$CCC = 0. \blacksquare$$

2. Organization of the paper

2.1. Sectioning. The paper is divided into chapters, with titles centred, without capitalizing the first letters. Normally, the chapters do not start on a new page; if you want to force this, add `\chaptersnewpage` to the preamble.

The default headings are “author–title” (see Section 1.2); if you want “chapter–section”, add the command `\pagestyle{headings}`.

Here are examples of a subsection and a subsubsection:

2.1.1. A subheading. This text is included only to illustrate the appearance of a subheading.

A subsubheading. A titled paragraph.

2.2. Figures. Figures must be prepared as eps or pdf files. All figures will be printed black and white; the colours will only appear in the online version.

Fig. 1. A figure caption

2.3. Reference list. Reference items should be arranged in alphabetical order, and styled according to the examples given below. Abbreviations of journal names should follow *Mathematical Reviews*. The items can either be numbered, or have labels of your choice. Give the issue number only if each issue of the journal is separately paginated.

Normally, the reference list does not start on a new page; if you want to force this, add `\refnewpage` to the preamble.

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