Math. J. Okayama Univ. **ZZ** (20XX), xxx–yyy

SAMPLE FILE OF THE CLASS FILE jokayama.cls FOR MATH. J. OKAYAMA UNIV.

dedicated to \ldots

MANAGING EDITOR, SECOND AUTHOR AND THIRD AUTHOR

ABSTRACT. This is a sample file of the class file jokayama.cls for Math. J. Okayama Univ.

INTRODUCTION

The class file jokayama.cls for Math. J. Okayama Univ. is a modification of the $\mathcal{A}_{\mathcal{M}}\mathcal{S}$ article class file amsart.cls. It can be used only with $\mathbb{A}T_{\mathbb{E}}X 2_{\varepsilon}$. To use jokayama.cls, write

\documentclass[options]{jokayama}

at the beginning of your file. The default options are

11pt, b5paper, twoside, onecolumn, lequo, centertags, final.

Please don't add options changing the type size (12pt, etc), the paper size (a4paper, etc) and the page layout (oneside, twocolumn, etc).

1. Preamble

In the preamble (the part before \begin{document}), you may add some packages and define theorem-like environments and your macros, etc. However, for simplicity, please don't write macros which you do not need in your article. Also, please don't change the following commands on lengths and layouts:

\textheight, \topmargin, \headheight, \headsep, \footskip, \textwidth, \oddsidemargin, \evensidemargin, \baselineskip, \baselinestretch, \parskip, \parindent, \pagestyle, \thispagestyle, \pagenumbering.

Mathematics Subject Classification. Primary 00-01; Secondary 68-01.

Key words and phrases. jokayama.cls, class file, $LAT_EX 2\varepsilon$, ...

This research was partially supported by ...

The first author was supported by ...

1.1. Packages. To add packages, write

\usepackage{...}

However, the packages amsmath, amssymb, amsthm will be automatically loaded in jokayama.cls, and so you need not to write

\usepackage{amsmath,amssymb,amsthm}.

1.2. Theorem-like and proof environments. Since jokayama.cls loads the amsthm package, the definition of theorem-like environments will be done in the same manner as in the amsthm package. (For detail, see [2]). For example, the definition

\newtheorem{thm}{Theorem}[section]
\newtheorem{lem}[thm]{Lemma}
\theoremstyle{definition}
\newtheorem{dfn}{Definition}
\theoremstyle{remark}
\newtheorem*{rmk}{Remark}

will produce the following theorem-like environments:

Theorem 1.1 (Main Theorem). This is a Main Theorem.

Lemma 1.2. This is a Lemma.

Definition 1. This is a Definition.

Remark. This is a Remark.

Also, the proof environments are available without defining. For example,

 \square

 \square

Proof of Main Theorem. This is a proof of Main Theorem.

Proof. This is a proof.

1.3. Some useful macros. Here, we introduce some useful macros from the amsmath package. (For detail, see [1]).

A log-like command (upshape command in a math mode) can be defined by

\DeclareMathOperator{...}

For example, the definition

\DeclareMathOperator{\Hom}{Hom}

will produce the command \Hom which can be used as follows:

 $\operatorname{Hom}_R(A, B).$

If you want to have equations numbered within sections, write \numberwithin{equation}{section}

 $\mathbf{2}$

Then the equation number will be

(1.1)
$$\sum_{k=1}^{n} k = \frac{n(n+1)}{2}.$$

If you want to allow page breaks in a display math mode, write

\allowdisplaybreaks

Then page breaks will be automatically determined even in a display math mode if necessary.

2. Informations

Informations for the title, author(s), the article and an abstract should be written between \begin{document} and \maketitle. In jokayama.cls, the following are provided.

Title	\title[]{}	title	required
Author(s)	$\operatorname{author}[\ldots]{\ldots}$	author's name	required
	\address[]{}	address	required
	$\geq 1 \leq \dots $	e-mail address	recommended
		URL address	optional
	$moreinfo[]{}$	more information	optional
		current address	optional
Article	$subjclass{}$	Mathematics	recommended
		Subject	
		Classification	
	$\ \$	keywords	recommended
	$\tilde{1}$	thanks	optional
	$\det {\ldots}$	dedication	optional
Abstract	\begin{abstract}	abstract	recommended
	$\end{abstract}$		

Details of each item are directly written in LATEX source file (sample.tex) as a comment.

3. Attentions

In jokayama.cls, plain TEX commands \cases, \matrix, \pmatrix cannot work. Please change these commands as follows:

Before			
$(\text{plain } T_E X)$	a&b\cr	a&b\cr	a&b\cr
	c&d	c&d	c&d
	}	}	}
After	\begin{cases}	\begin{matrix}	\begin{pmatrix}
$(\operatorname{IAT}_{E} X 2_{\mathcal{E}})$	a&b\\	a&b\\	a&b\\
	c&d	c&d	c&d
	\end{cases}	$\geq \{matrix\}$	\end{pmatrix}

Acknowledgement

If you want to express an acknowledgement, please write it at the end of the article as a section without section number. To do this, write

\section*{Acknowledgement}

References

- AMERICAN MATHEMATICAL SOCIETY, User's Guide for the amsmath Package, Amer. Math. Soc., 2002.
- [2] AMERICAN MATHEMATICAL SOCIETY, Using the amsthm Package, Amer. Math. Soc., 2000.

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(Received received date, year) (Revised revise date, year)