

## Here is the Sample File for CMR

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**Abstract.** This is a Sample File showing the right templates for Communications in Mathematical Research Prepared in  $\LaTeX$ . Please read the instructions in the tex file very carefully including those proceeded by % sign.

**AMS subject classifications:** xxxxx, xxxxx

**Key words:** xxxxxx, xxxxxx, xxxxxx, xxxxxx.

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## 1 Introduction

Here are some important instructions on how to prepare your  $\LaTeX$  files for Communications in Mathematical Research. Please pay special attention to the following:

1. All texts in a theorem, lemma, proposition, corollary, definition environment should be automatically *slanted*. However all texts in a remark, notation and example environment should be automatically **normal**.

**Theorem 1.1.** *Here is a theorem environment.*

*Proof.* xxxxxx □

**Remark 1.1.** Here is a remark environment.

2. **Equations** should be typewritten whenever possible and the number placed in parentheses at the right margin. Reference to equations should use the form “Eq. (1.1)” or simply “(1.1).” For example,

$$D_{\lambda}^{\mu,\beta}[S(\lambda^2 t)u_0] = S(\lambda^{2-2p\beta-\mu(p-2)} t)[D_{\lambda}^{\mu,\beta} u_0]. \quad (1.1)$$

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**Superscripts and subscripts** should be typed clearly above and below the line, respectively, e.g.,  $\sum_{n=i}^{\infty} x^n$  should be  $\sum_{n=i}^{\infty} x^n$ ,  $\sup_{0 \leq t \leq T} x(t)$  should be  $\sup_{0 \leq t \leq T} x(t)$ ,  $\lim_{n \rightarrow \infty} x^n$  should be  $\lim_{n \rightarrow \infty} x^n$ . Letters used for matrix or vector should be in bold italics, e.g.,  $A$ ,  $\Theta$ ,  $\beta$ .

3. **Figures** should be in a finished form suitable for publication. Lettering on drawings should be of professional quality or generated by high-resolution computer graphics and must be large enough to withstand appropriate reduction for publication. For example, if you use MATLAB to do figure plots, axis labels should be at least point 18. Title should be 24 points or above. Tick marks labels better have 14 points or above. Line width should be 2 (or above). Illustrations in colors will appear in black and white in printed version.

Figures should be in eps format and scalable. Insert a figure in the text nearest its first cited. Number figures consecutively with Arabic numerals according to its sequence in the text, e.g., Figure 1, Figure 2. The caption should be placed at the bottom of the figure.

4. **Tables** should be in “Three-Line Table” style. Number tables consecutively with Arabic numerals according to its sequence in the text, e.g., Table 1, Table 2. Caption should be placed on the top of the table.

**Table 1** Put the Caption here

Problem number	Problem Name	Dimension
1	Helical Valley	3
2	Biggs EXP6	6
3	Gaussian	3
4	Variably Dimensioned	10

5. **Reference.** Please read carefully the information preceded by % sign in the bibliography environment.

(1) **References should be listed according to the order cited in the text.** For example, In [1] ... Wang *et al.* ... (see [2]). Some reference styles can be found in [3]–[6].

(2) Always place the first name (or first name initial) first, then the middle name initial (optional), followed by the last name. If there are multiple authors, use the word ‘and’ to connect the last two authors, e.g. J. Wang, S. J. Liu and X. Y. Wang.

(3) If a reference is a paper in a journal, the name of the journal should be *slanted*, Only the first character in a paper’s title is in capital. Please pay attention

to the correct way for **year, volume number** (in bold face), **starting page–ending page** (use two hyphens ‘-’ to join the pages). See references [1] and [2] for details.

(4) If the reference is a book, the first letter of each word should be capitalized. See reference [3] for details.

(5) If the reference is a paper in a conference proceeding, please see the sample reference [4].

(6) If the reference is a paper in an academic press or a book, please see the sample reference [5].

(7) If the reference is a thesis, please see the sample reference [6].

(8) Abbreviations of cited journals should follow the abbreviations of names of serials used in Mathematical Reviews (MR).

(9) Please do not list any references you never cited in your paper.

## Acknowledgments

The author expresses thanks to the people helping with this work. Financial support also appears in this part, with grant number(s) following. The full title of each fund is required.

## References

- [1] FirstNameInitial. MiddleNameInitial. LastName. Title of the paper. *Abbreviations of Names of the Journal*, Year, **Volume**, StartingPage–EndingPage.
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