

# Template for submitting papers to CAIM

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## Abstract

Your abstract

*Keywords:* ADD RELEVANT KEYWORDS

*AMS subject classification:* ADD YOURS - FOR A LIST CLICK ON THE HYPERLINK

## 1. Introduction

This note is provided to give an **example of a correctly formatted**  $\text{\LaTeX}$  document according to the style `CAIM_Sciendo_open_article.cls` adopted by the online journal CAIM. All the files necessary for the proper compiling of the PDF document can be downloaded from the [Submissions section](#) in the CAIM website. **The paper should not exceed 20 pages**, including figures and references. Longer contributions should be agreed by the Editor. **Authors are strongly suggested to comply with this template** in order to facilitate the editing process. Each article is associated with a DOI<sup>a</sup> and with a publication date when the paper is actually published online.

## 2. Title, authors, addresses, abstract and keywords

The authors are requested to specify:

- The kind of paper: Research Article, Review Article or Technical Note within the (newly defined) `\typeofpaper` command<sup>b</sup>
- The title of their work within the `\title` command.
- The name of the authors within the `\author` command.
- The addresses of the authors' institutes within the `\affiliation` command (one for each institute).

Moreover, **email address** of the corresponding author only has to be written immediately after all the affiliations. Then, the following have to be placed:

- The abstract within the `abstract` environment (leaving one blank line above the text and one blank line below).

<sup>a</sup>Digital Object Identifier.

<sup>b</sup>The three kinds of paper are described as follows:

**Research Article:** Full lenght articles should report the results of original research. The material should not have been previously published elsewhere, nor has been submitted to an another journal for consideration. The entire submitted manuscript typically should not exceed approximately 20 pages.

**Review Article:** this should cover subjects within the scope of the journal that are of active current interest. They are usually invited, but prospective Authors may contact the Editors with proposals.

**Technical Note:** this are concise, comprehensive descriptions of technical aspects of innovative methods. The entire submitted manuscript typically should not exceed approximately 10 pages.

- The keywords describing the research within the `\keywords` command.
- The *AMS subjects* within the `\AMScode` command.

### 3. Sectional units

Sectional units can be included with the common  $\text{\LaTeX}$  commands `\section`, `\subsection` and `\subsubsection`.

In particular, the titles of these sectional units should comply with the following simple rules:

- Only the first letter of the first word has to be in uppercase, except in case of acronyms and proper nouns.
- The title has to be written with no punctuation at the end.

Some contents related to Section 3 are found in Sections 3.1 and 3.2. Further details are provided in Sections 3.1.1 and 3.2.1, while a summary is given in Section 3.2.2.

#### 3.1. *Example of subsection*

Content of this subsection.

##### 3.1.1. *Example of subsubsection*

Content of this subsubsection.

#### 3.2. *Example of a second subsection.*

Content of this subsection with footnote<sup>c</sup>.

##### 3.2.1. *Example of subsubsection*

Content of this subsubsection.

##### 3.2.2. *Example of a second subsubsection*

Content of this subsubsection with a second footnote<sup>d</sup>.

### 4. Equations

Equations are entered using the `equation` environment, and numbers are automatically assigned on the left. Labels should be assigned to all the equations, by means of the `\label` command, to allow for cross-referencing. Examples are Equations (1) and (2).

$$(1) \qquad a + b = c$$

$$(2) \qquad \sum_{i=1}^n \sqrt{\alpha_i + \beta_i} = \frac{\gamma}{\sigma - \delta}$$

The `\quad` and `\qquad` commands can be used to get correct spacings in displayed formulas.

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<sup>c</sup>This is a footnote.

<sup>d</sup>This is a second footnote.

#### 4.1. *Environments for mathematics*

Several environments may be used and cross-referenced, as:

- Theorem 4.1 and the related proof.
- Corollary 4.1.
- Lemma 4.1.
- Proposition 4.1.
- Definition 4.1.
- Problem 4.1.
- Algorithm 4.1.
- Remark 4.1.
- Example 4.1.

**Theorem 4.1.** *Theorem statement.*

**Proof.** Proof of Theorem 4.1. □

**Corollary 4.1.** *Corollary statement.*

**Lemma 4.1.** *Lemma statement.*

**Proposition 4.1.** *Proposition statement.*

**Definition 4.1.** Definition statement.

**Problem 4.1.** *Problem statement.*

**Algorithm 4.1.** *Algorithm statement.*

**Remark 4.1.** Remark statement.

**Example 4.1.** Example statement.

### 5. Figures and tables

This section describe how figures and tables should be formatted.

#### 5.1. *Figures*

Figures should be, when possible, **vector graphics in EPS or PDF format**. Authors are requested to insert figures by means of the `\includegraphics` command inside the `figure` environment. All figures must be described **with a caption and labeled** for cross-referencing, as in Figure 1. Moreover, figures should be **clear and readable**.

#### 5.2. *Tables*

As figures, tables must be provided **with a caption and a label**. A simple example is represented by Table 1 where the environments `table` and `tabular` are used, and the `\tbl` command is used for the caption.

### 6. References and citations

This section deals with references and citations.

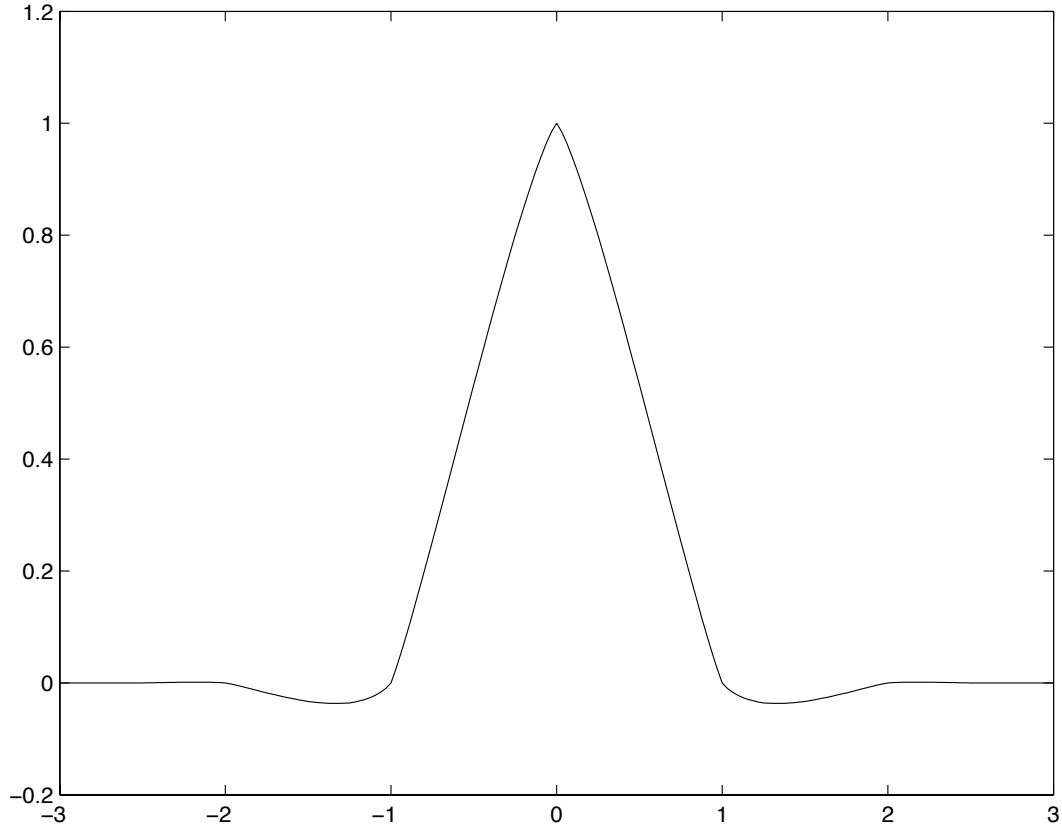


Figure 1. Plot of the limit function.

Table 1. Errors in the numerical solutions at  $t = 30$  by two different methods.

$h$	$E_2(h)$	$E_2(2h)/E_2(h)$	$E_4(2h)/E_4(h)$
1/2	$2.94 \times 10^{-3}$	—	—
1/4	$7.24 \times 10^{-4}$	4.058	16.267
1/8	$1.80 \times 10^{-4}$	4.014	16.065
1/16	$4.50 \times 10^{-5}$	4.004	16.016
1/32	$1.13 \times 10^{-5}$	4.002	16.004
1/64	$2.81 \times 10^{-6}$	4.003	15.999
1/128	$7.01 \times 10^{-7}$	4.012	15.949

### 6.1. References

The authors are requested to **not abbreviate the cross-references**, i.e. they should use:

- Section/Sections instead of Sect./Sects.
- Equation/Equations instead of Eq./Eqs.
- Figure/Figures instead of Fig./Figs.
- Table/Tables instead of Tab./Tabs.

All cross-references use the `\ref` command, except in the case of equations where `\eqref` is preferred. Examples of cross-references are Figure 1, Table 1, Equations (1) and (2), Sections 3.1.1, 3.2 and 3.2.2.

### 6.2. Citations

Citations of other works are accomplished with the `\cite` command. Examples of citations are [1], see also [2,3] and [4].

Other examples are [1,3,5,6] or [7] and [8].

### 6.3. Use of the tilde

The use of the *tilde* in cross-references and citations is strongly suggested in order to force the characters of either side of the *tilde* to be typeset with an intervening space but on the same line.

## Acknowledgements

Include here your acknowledgements (if any). This particular section is *starred* since it is not included in the usual numbering.

## 7. Bibliography

The authors **do not have to include a bibliography section** like this<sup>e</sup>, since the bibliographic references are automatically included in the paper. This is obtained using BibTeX along with your .bib file and the attached CAIM\_Sciendo\_bibstyle.bst file, through the \bibliographystyle and the \bibliography commands. The first selects the bibliography style CAIM\_Sciendo\_bibstyle.bst, while the second loads the bibliography file compiled by the authors. The command line sequence to achieve the above for the present document is:

```
> latex CAIM_Sciendo_sample
> bibtex CAIM_Sciendo_sample
> latex CAIM_Sciendo_sample
> latex CAIM_Sciendo_sample
```

Suggestions for the bibliographic references are included in the sample file bibliography.bib. Authors should **avoid abbreviations** for journal names.

## References

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<sup>e</sup>The last section of the paper must be that of the Acknowledgements.