

# RMxAA L<sup>A</sup>T<sub>E</sub>X template for article preparation v4.6

C. G. Román-Zúñiga <sup>1,†</sup>, I. Cruz-González <sup>2,†</sup>, W. J. Henney <sup>3</sup>, A. Student<sup>1,2,†</sup> and M. Y. Posdoc<sup>2,4</sup>

<sup>1</sup>Universidad Nacional Autónoma de México, Instituto de Astronomía, AP 106, Ensenada 22800, BC, México

<sup>2</sup>Universidad Nacional Autónoma de México, Instituto de Astronomía, AP 70-264, CDMX 04510, México

<sup>3</sup>Universidad Nacional Autónoma de México, Instituto de Radioastronomía y Astrofísica. Antigua Carretera a Pátzcuaro 8701, Ex-Hda. San José de la Huerta, 58089, Morelia, Michoacán, México

<sup>4</sup>One more affiliation you may need

<sup>†</sup>This project is part of a collaboration/consortium/program

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## Abstract

This document (`rmxaa_main.tex`—last updated February, 2026) provides a brief tutorial on the use of version 4.6 of the RMxAA L<sup>A</sup>T<sub>E</sub>X macros and can also serve as a template for the preparation of papers to be published in the Main Journal of the Revista Mexicana de Astronomía y Astrofísica. It provides brief tutorial information and common rules for the authors. We have included information about the section content, as well as examples of figures, tables, and code lines. We are making use of the  $\rho$  L<sup>A</sup>T<sub>E</sub>X class, specially designed for academic purposes. It is assumed that you are already familiar with the rudiments of L<sup>A</sup>T<sub>E</sub>X. In case you are not, we recommend the manuals provided by Overleaf (<https://www.overleaf.com/learn/latex/Tutorials>).

## Resumen

Este documento (`rmxaa_main.tex`— última actualización febrero 2026) describe de manera breve el uso de la versión 4.6 de los macros RMxAA L<sup>A</sup>T<sub>E</sub>X y funciona como un templete común para la preparación de artículos que se deseen publicar en la parte principal de la Revista Mexicana de Astronomía y Astrofísica. El documento provee textos instructivos breves y reglas básicas para los autores. Hemos incluido información sobre el contenido de las secciones, así como ejemplos de figuras, tablas y la inclusión de líneas de código. Se hace uso de la clase  $\rho$  L<sup>A</sup>T<sub>E</sub>X, especialmente diseñada para propósitos académicos. Se asume que el autor está familiarizado con los rudimentos de L<sup>A</sup>T<sub>E</sub>X. En caso de que no sea así, recomendamos los manuales que provee la plataforma Overleaf (<https://www.overleaf.com/learn/latex/Tutorials>).

**Corresponding author:** Carlos Román-Zúñiga *E-mail address:* [croman@astro.unam.mx](mailto:croman@astro.unam.mx)

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## 1. INTRODUCTION

Welcome to the RMxAA L<sup>A</sup>T<sub>E</sub>X template to prepare your academic article. Articles considered for publication in the main journal can be easily prepared using this template. The style of this template is based on the  $\rho$  class style<sup>1</sup>. It requires minimal or no typesetting adjustments to provide a version of your manuscript that is close to the final printed version. This style also has ample margins to allow for a comfortable number of words per line and leaves room for adding marginal notes.

The version of the `rmaa-rho` document class described in this User Guide is 1.0 (September 12, 2026). Its use requires a relatively recent version of L<sup>A</sup>T<sub>E</sub>X, although it is optimized to work directly online using **Overleaf**. The current version of the L<sup>A</sup>T<sub>E</sub>X Project Public License is 1.3c (2008). For the author who requires a general introduction to L<sup>A</sup>T<sub>E</sub>X, we recommend starting at The LaTeX Project website <https://www.latex-project.org/about/>, or using the Overleaf LaTeX guide [https://www.overleaf.com/learn/latex/Free\\_online\\_introduction\\_to\\_LaTeX\\_\(part\\_1\)](https://www.overleaf.com/learn/latex/Free_online_introduction_to_LaTeX_(part_1)).

<sup>1</sup>The RMxAA paper template is based on the  $\rho$  L<sup>A</sup>T<sub>E</sub>X class, created by Luis Guillermo Jiménez López and Eduardo Gracidas Reyes.

## 2. PREAMBLE

The first line to appear in your document should be

```
\documentclass{rmaa-rho}
```

or

```
\documentclass[optionlist]{rmaa-rho}
```

which configures the document to use the `rmaa` class, using the default `manuscript` option, which is designed for use by authors who submit articles to the main RMxAA journal. The following commands can be used after the `\documentclass` command, but before `\begin{document}`.

### 2.1. Title

The `\title` command defines the title of the article. The title text should be entered in mixed-case letters. In general, for archival and reference purposes, it is recommended not to use mathematical expressions in a title, but they are allowed if necessary; for example,

`\documentclass{title text}`

## 2.2. Author information

The `\author` command defines the article authors. In addition to this command, the `\affil` command can be used to define the authors' affiliations. This will be typed below the authors' names in the final version of the manuscript. Individual authors should be entered in the style A.~B.~Lastname to avoid line breaks within the name. Authors may use their first name instead of the initial before their second initial and last name. Line breaks may be inserted by hand using a double backslash symbol “`\\`”. If the authors have various affiliations, you can put more than one of them in square brackets preceding the author name, as in the example below: Note that we also included the ORCID number and link for each author.

```
\author[affiliation list]{author first & last name}
\orcidlink {author ORCID}
```

and the affiliation details with the command line

```
\affil[number or symbol]{affiliation text}
```

## 2.3. Footer information

The `\leadauthor` command is used to provide the last name and initials of the leading author of the article, and will be visible at the top of every odd numbered page. Please do not modify the text of the `\smalltitle` and `\institution` commands, which define the footer text at the bottom of the first page of every article in RMxAA.

## 2.4. Corresponding author information

Please use the `\corres` and `\email` commands to define the name and e-mail address of the corresponding author, respectively. In most cases, this will probably coincide with the lead author, as in this example. We note that the only email used in the manuscript is that of the corresponding author; the remaining authors are identified by their ORCID and affiliations.

## 2.5. Keywords

Keywords are provided by the authors and placed below the author's addresses. A minimum of three and a maximum of five keywords must be placed using the command `\keywords{}`.

## 2.6. Abstract

In this section, you need to provide the abstract in both Spanish and English. The abstract text may contain several paragraphs, but it should not be overly long, as both abstracts must fit on the first page<sup>2</sup>. The recommended length is 200 words for both English and Spanish abstracts. If the authors are unable to provide a Spanish version of the abstract, you can use the same text as the English abstract, and our editors will take care of it.

The text for the **abstract** and the **resumen** is placed with the `\begin{abstract} \end{abstract}` and `\begin{resumen} \end{resumen}` commands, respectively.

## 3. MAIN BODY

The main body of the document should be opened within the following pair of commands:

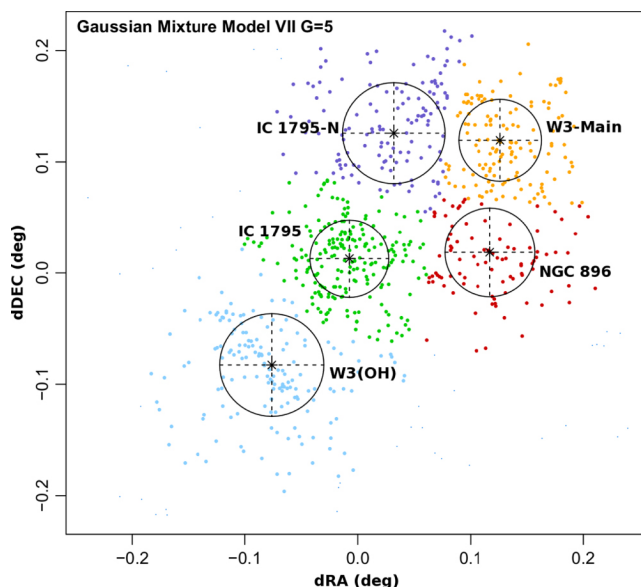


Figure 1. Example figure, from ?.

```
\begin{document}
```

```
...
```

```
ARTICLE TEXT
```

```
...
```

```
\end{document}
```

The first command after the `\begin{document}` should be `\maketitle`. This will format the Title, Author(s), Abstract, Resumen, and Keywords sections.

Within the main body of the document, all standard  $\LaTeX$  commands can be used. The commands provided by many optional packages distributed with  $\LaTeX$  may also be used as long as the package is loaded using the `\usepackage` command in the preamble. However, authors are requested to avoid using commands that change the document fonts, page layout, or other 'stylistic' parameters. We should also note that not all optional packages have been tested for compatibility with the `rmaa_rho` class.

### 3.1. Sectioning commands and cross references

Authors are encouraged to use the standard  $\LaTeX$  sectioning commands to subdivide their articles as follows:

```
\section
\subsection
\subsubsection
\paragraph
```

Please use standard  $\LaTeX$  sectioning commands to subdivide your document into appropriate sections. You should use mixed cases for the section titles; however, in the current style, this only matters at the level of `\subsection` and below.

These will be automatically typed in the RMxAA style. Cross-referencing is made easier by the use of the `\label {LABEL}` command immediately after each sectioning command, where the LABEL text is a mnemonic string. Elsewhere in the document, the section can then be referred to as `\ref {LABEL}`. The `\label` command can also be used with equations, figures, and tables (see below).

<sup>2</sup>this is a footnote

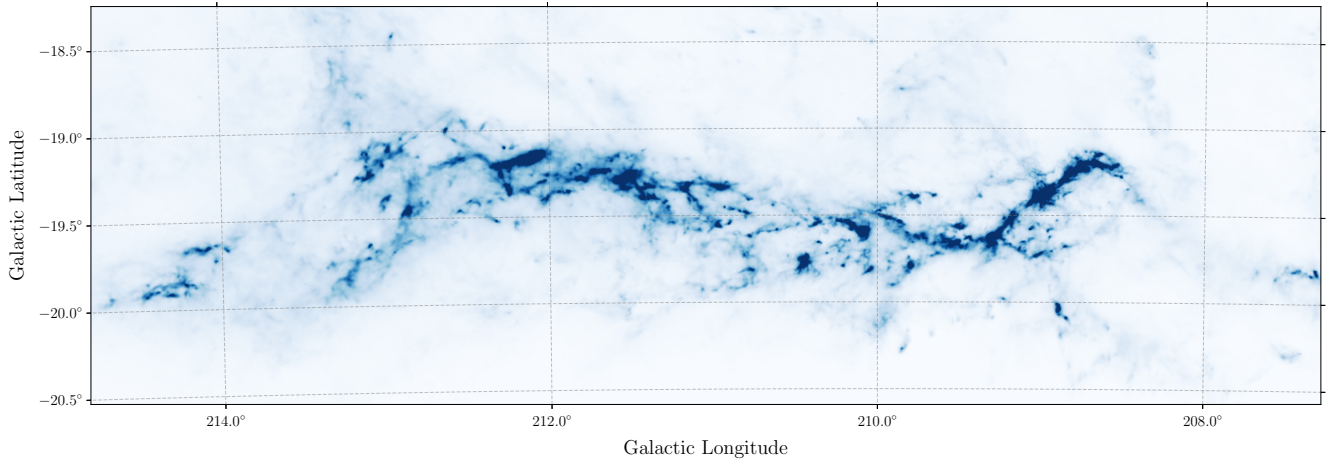


Figure 2. Second example figure

It is preferable to use the `\label/\ref` mechanism for cross-references to minimize the chance of errors and to allow automatic hyperlinks in the PDF output. The style that should be used for cross-references is, for example, Figure 3, Table 1, Equation (12), and §5.1, where the symbol of the section “§” is produced by the L<sup>A</sup>T<sub>E</sub>X command “§” S.

### 3.2. Math Symbols and Equations

Symbols for physical quantities should usually be in italics: velocity,  $v$ , density,  $N$ , etc. However, multi-letter symbols generally look better in Roman: FWHM, EM, etc.

The subscripts should be in roman (coded using `\mathrm`) unless they are themselves variables:  $N_e$ ,  $T_{\text{eff}}$ , but  $\sum_i a_i$ .

Physical units should be in roman with thin spaces: 10 K,  $1.2 \times 10^{-12} \text{ erg cm}^{-2} \text{ s}^{-1}$ , etc.

Things generally come out best if you place an entire expression within a single pair of  $\$$ ’s and then make judicious use of `\mathrm`. For example,

$$\text{FWHM} = \int N_e N_i dz$$

Recall that the “minus sign” only exists inside math mode: minus two is  $-2$ , not  $-2$ , nor even  $-2$ ! In addition, remember that spacing inside math mode is designed for equations, not words, so you should not use  $\$$ ’s just to get italic text. Compare *eff* and *eff*.

The `\frac` command (and its T<sub>E</sub>X relative `\over`) is best used only in displayed equations, as in this case: Something like

$$x = \frac{a+b}{c} \quad (1)$$

looks fine, whereas  $x = \frac{a+b}{c}$  looks somewhat cramped. It is better rewritten as  $x = (a+b)/c$ .

**How to define a macro that can be used inside or outside math mode.** Use the `\ensuremath` command. For example:

```
\newcommand{\fluxunits}{%
  \ensuremath{\mathrm{erg\,s^{-1}\,cm^{-2}}}}
```

Then you can write either `15.1\, \text{\fluxunits}` or `\$2.3\times 10^{-11} \, \text{\fluxunits}`

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```

Then you can write either `15.1\, \text{\fluxunits}` or `\$2.3\times 10^{-11} \, \text{\fluxunits}`

#### 3.2.1. Equations

Equation 2 shows the Schrödinger equation as the first example of an elegant equation with proper labeling.

$$\frac{\hbar^2}{2m} \nabla^2 \Psi + V(\mathbf{r})\Psi = -i\hbar \frac{\partial \Psi}{\partial t} \quad (2)$$

Equation 2 shows the Riemann tensor as a slightly more complicated example using sub- and superscripts, respectively.

$$R^\alpha_{\epsilon\mu\nu} := \partial_\mu \Gamma^\alpha_{\nu\epsilon} - \partial_\nu \Gamma^\alpha_{\mu\epsilon} + \Gamma^\sigma_{\nu\epsilon} \Gamma^\alpha_{\mu\sigma} - \Gamma^\sigma_{\mu\epsilon} \Gamma^\alpha_{\nu\sigma}, \quad (3)$$

which, after contraction of the first and third indices,  $R_{\mu\nu} := R^\alpha_{\mu\alpha\nu}$ , yields an expression (4) that helps exemplify the use of *splitting* (?):

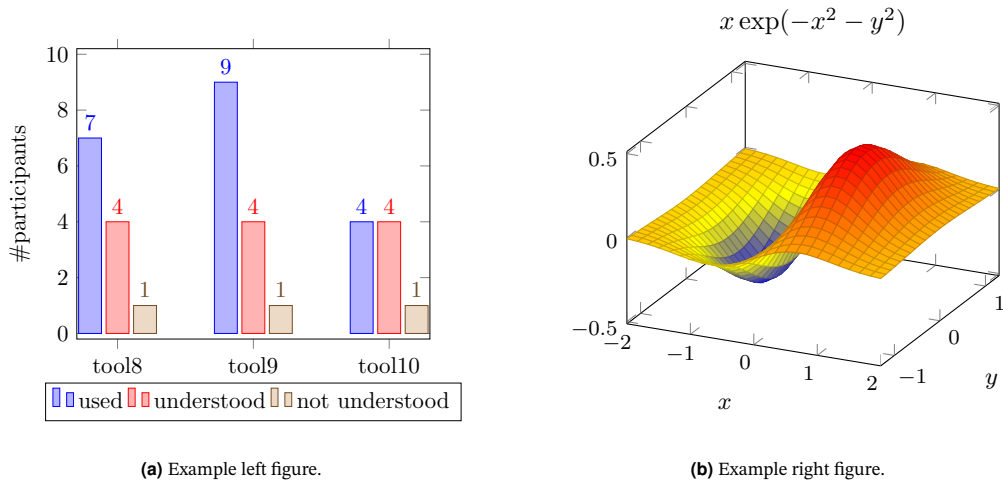
$$R_{\mu\nu} = R_{\mu\nu}(\{ \}) + \tilde{\nabla}_\nu K^\alpha_{\alpha\mu} - \tilde{\nabla}_\alpha K^\alpha_{\nu\mu} + K^\sigma_{\nu\mu} K^\alpha_{\alpha\sigma} - K^\sigma_{\alpha\mu} K^\alpha_{\nu\sigma}, \quad (4)$$

In another complex expression by the same authors, we can show the addition of intercalated text (italics) in the combined Eqs. 5 and 6

$$\begin{aligned} R_{\mu\nu} \{ \} - \frac{1}{2} g_{\mu\nu} R \{ \} - \frac{1}{2} g_{\mu\nu} \kappa (\tilde{\nabla}_\alpha T^\alpha + T^\alpha T_\alpha)^b \\ + \kappa b (\tilde{\nabla}_\alpha T^\alpha + T^\alpha T_\alpha)^{b-1} T_\mu T_\nu \\ - \kappa b T_\nu \tilde{\nabla}_\mu [(\tilde{\nabla}_\alpha T^\alpha + T^\alpha T_\alpha)^{b-1}] \\ = \frac{8\pi G}{c^4} \Sigma_{\mu\nu}, \end{aligned} \quad (5)$$

for the null variations with respect to the metric, and

$$2T_\mu (\tilde{\nabla}_\alpha T^\alpha + T^\alpha T_\alpha)^{b-1} = \tilde{\nabla}_\mu [(\tilde{\nabla}_\alpha T^\alpha + T^\alpha T_\alpha)^{b-1}] \quad (6)$$



**Figure 3.** Example figure that covers the width of the page obtained from PGFPlots ?. In this case, the caption length is quite long, so it is justified at the edges.

### 3.3. Special symbols

The commands for commonly used symbols in astronomy are listed in Table 1.

**Table 1.** Astronomy special symbols commands.

| Command              | Output        | Meaning                  |
|----------------------|---------------|--------------------------|
| <code>\sun</code>    | $\odot$       | Sun, solar               |
| <code>\earth</code>  | $\oplus$      | Earth, terrestrial       |
| <code>\micron</code> | $\mu\text{m}$ | microns                  |
| <code>\degr</code>   | $^\circ$      | degrees                  |
| <code>\arcmin</code> | $'$           | arcminutes               |
| <code>\arcsec</code> | $''$          | arcseconds               |
| <code>\fdg</code>    | $^\circ$      | fraction of a degree     |
| <code>\farcm</code>  | $'$           | fraction of an arcminute |
| <code>\farcs</code>  | $''$          | fraction of an arcsecond |
| <code>\fd</code>     | $^{\text{d}}$ | fraction of a day        |
| <code>\fh</code>     | $^{\text{h}}$ | fraction of an hour      |
| <code>\fm</code>     | $^{\text{m}}$ | fraction of a minute     |
| <code>\fs</code>     | $^{\text{s}}$ | fraction of a second     |
| <code>\fp</code>     | $^{\text{p}}$ | fraction of a period     |
| <code>\sq</code>     | $\square$     | square, Q.E.D.           |

### 3.4. Ionization states

For ions, a `\ion{ }{ }` command is used for the correct typesetting of ionization states. For example, to typeset singly ionized calcium, use `\ion{Ca}{i}`, which produces Ca II, while a double-ionized oxygen forbidden line produces [O III].

## 4. CONCEPT HIGHLIGHT BOX

The new RMxAA L<sup>A</sup>T<sub>E</sub>X macro allows the authors to use a colored box to highlight a concept or equation, as shown in this example.

The labels and reference points of the sections are included. Example: See the Concept box in Section 4.

### Highlight Concept Box

Hello! This is an example of a concept highlight box (HCB) section. I can be placed anywhere in the body of the paper to briefly summarize important concepts. We do not allow HCBs larger than 40 words

## 5. FIGURES AND TABLES

### 5.1. Sample simple figure

Figure 1 shows an example of a simple figure occupying the space of one column. In most cases, this is a good option for displaying a relatively simple scatter plot or a histogram. We require that the font size of the axis labels be at least as large as that of the caption.

### 5.2. Sample wide figure

Figure 2 shows an example of another relatively simple figure, but this time the width of the figure is as large as the width of the page. In this example, the figure is placed at the top of the page.

### 5.3. Sample double figure

Figure 3 shows an example of a floating figure with two separate panels covering the width of the page. The figure can be placed at the top or bottom of the page. The space between the figures can also be modified using the `\hspace{Xpt}` command.

### 5.4. Sample simple table

Similar to figures, tables can be placed in one or two columns, depending on their length.

Table 1 is an example of a relatively simple table, with three columns, which is narrow enough to be shown inside a single column. The example is also useful as a quick guide to symbols commonly used in astronomy.

### 5.5. Sample wide table

Table 2, shows a second example of a table. This time, the content of the table is more adequate for a larger horizontal size. The

example is constructed such that the table covers the width of the page and is positioned at the bottom of the new page.

5.6. Landscape table

The third example of tables is shown in Table 3, where we show a more complex table rotated sideways to fit the landscape mode. RMxAA uses the  $\LaTeX$ package `tabular`, which is adequate for most applications. A good tutorial for tables, with direct applications of the `tabular` can be found in <https://www.overleaf.com/learn/latex/Tables>.

We do not recommend publishing very long tables in your paper. Large data collections may be more useful to readers in a machine-readable format (MRT). In the manuscript, a table with fewer rows may serve as a guide for the MRT document content. Please contact our editors to allocate direct link access to MRT tables in the RMxAA web page for the published version of your manuscript.

6. FACILITIES

For observational research, authors must include a brief list of facilities and instruments used, as well as proper acknowledgment of public catalogs and virtual observatory resources used.

7. REFERENCE STYLE

Our default formatting for references uses the journal-naming system from the AASTex style and the Astrophysics Data System (ADS). RMxAA follows the ADS bibliographic codes for both refereed [https://adsabs.harvard.edu/abs\\_doc/refereed.html](https://adsabs.harvard.edu/abs_doc/refereed.html) and non-refereed [https://adsabs.harvard.edu/abs\\_doc/non\\_refereed.html](https://adsabs.harvard.edu/abs_doc/non_refereed.html) publications. If a paper has more than five authors, only the first three will be listed, followed by “et al.”. The DOI of each publication was included in the dataset. At the end of this document, you will find an example of the default reference formatting. The default formatting for references follows the Astrophysics Data System (ADS) BibTeX style. The author should provide a bibliography file using the command `\bibliography{bibfile}`, where all references are included. At the end of this document, you will find an example of the default reference formatting. Note that the DOI code is linked to references that have one; therefore, it is important to include it in the BibTeX bibliography (`.bib`) file. The usual commands `\citep` for reference in parentheses, as in (?), and `\citet` for references with year in parentheses, as in ?, are used in the main body of the article. Authors must include their bibliography file with their manuscript, i.e. the bib file. The **rmxaa.bib file** is an example of a bib file that serves as a guide for the formatting.

Table 2. Table example that covers the width of the page.

| Day       | Min Temp | Max Temp | Summary                                                                                                                 |
|-----------|----------|----------|-------------------------------------------------------------------------------------------------------------------------|
| Monday    | 11°C     | 22°C     | A clear day with lots of sunshine. Strong breezes lower the temperature.                                                |
| Tuesday   | 9°C      | 19°C     | Cloudy with rain across many northern regions.                                                                          |
| Wednesday | 10°C     | 21°C     | Rain will still linger for the morning. Conditions will improve by early afternoon and continue throughout the evening. |

Note: Obtained from Latex tables ?.

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| Table 3. My Results     |             |              |       |               |                 |                 |       |            |                 |                 |       |
|-------------------------|-------------|--------------|-------|---------------|-----------------|-----------------|-------|------------|-----------------|-----------------|-------|
| FF                      |             |              | AA    | BB            | CC              | DD              | FF    | GG         | HH              | II              | JJJJ  |
| Cccccccccc<br>aaaaaaaaa | aaaaa aaaaa | aa aa aaaaaa | aaa   | aaaa<br>aaaaa | aa +<br>a-aaaaa | aa +<br>a-aaaaa | aaa   | aaaa aaaaa | aa +<br>a-aaaaa | aa +<br>a-aaaaa | aaa   |
| aaaaaaaa                | 0000        | 1111         | 22222 | 333333        | 444444          | 5555            | 66666 | 77777      | 88888           | 99999           | 10100 |
|                         | 000         | 1111         | 22222 | 33333         | 44444           | 55555           | 66666 | 77777      | 88888           | 99999           | 10.10 |
|                         | 000         | 1111         | 22222 | 33333         | 44444           | 55555           | 66666 | 77777      | 88888           | 99999           | 10.10 |
|                         | 000         | 1111         | 22222 | 33333         | 44444           | 55555           | 66666 | 77777      | 88888           | 99999           | 10.10 |
|                         | 000         | 1111         | 22222 | 33333         | 44444           | 55555           | 66666 | 77777      | 88888           | 99999           | 10.10 |
|                         | 000         | 1111         | 22222 | 33333         | 44444           | 55555           | 66666 | 77777      | 88888           | 99999           | 10.10 |
|                         | 000         | 1111         | 22222 | 33333         | 44444           | 55555           | 66666 | 77777      | 88888           | 99999           | 10.10 |
|                         | 000         | 1111         | 22222 | 33333         | 44444           | 55555           | 66666 | 77777      | 88888           | 99999           | 10.10 |
| aaaaaaaa                | 0000        | 1111         | 22222 | 333333        | 444444          | 5555            | 66666 | 77777      | 88888           | 99999           | 10100 |
|                         | 000         | 1111         | 22222 | 33333         | 44444           | 55555           | 66666 | 77777      | 88888           | 99999           | 10.10 |
|                         | 000         | 1111         | 22222 | 33333         | 44444           | 55555           | 66666 | 77777      | 88888           | 99999           | 10.10 |
|                         | 000         | 1111         | 22222 | 33333         | 44444           | 55555           | 66666 | 77777      | 88888           | 99999           | 10.10 |
| aaaaaaaa                | 0000        | 1111         | 22222 | 333333        | 444444          | 5555            | 66666 | 77777      | 88888           | 99999           | 10100 |
|                         | 000         | 1111         | 22222 | 33333         | 44444           | 55555           | 66666 | 77777      | 88888           | 99999           | 10.10 |
|                         | 000         | 1111         | 22222 | 33333         | 44444           | 55555           | 66666 | 77777      | 88888           | 99999           | 10.10 |
|                         | 000         | 1111         | 22222 | 33333         | 44444           | 55555           | 66666 | 77777      | 88888           | 99999           | 10.10 |
| aaaaaaaa                | 0000        | 1111         | 22222 | 333333        | 444444          | 5555            | 66666 | 77777      | 88888           | 99999           | 10100 |
|                         | 000         | 1111         | 22222 | 33333         | 44444           | 55555           | 66666 | 77777      | 88888           | 99999           | 10.10 |
|                         | 000         | 1111         | 22222 | 33333         | 44444           | 55555           | 66666 | 77777      | 88888           | 99999           | 10.10 |
|                         | 000         | 1111         | 22222 | 33333         | 44444           | 55555           | 66666 | 77777      | 88888           | 99999           | 10.10 |
| Aaaaaaa                 |             | 0000         | 11    | 22            | 33              | 44              | 55    | 66         | 77              | 88              | 99    |

## 8. ACKNOWLEDGEMENTS

Acknowledgements may be included to recognize funding sources and grants, to provide standardized acknowledgement text (including required references) for facilities or resources, and/or to recognize individuals who contributed to the research with any relevant discussion, resources, or services but are not listed as coauthors.

## 9. APPENDICES

If you have appendices to your article, you can use something like the following:

```
\begin{appendices}
\section{First Appendix}
\label{sec:ap-A}}
\{Text of first appendix.}
\section{Second Appendix}
\label{sec:ap-B}}
\{Text of second appendix.}
\end{appendices}
```

The appendices follow the Acknowledgments section but precede the Bibliography section. Equations in the appendices are labeled A1, A2, B1, B2, etc.

## 10. CODES

This macro includes the *listings* package, which offers customized features for adding code or pseudocode. The package adds adequate syntax coloring for some of the most popular languages (C, C++, Python, and Matlab).

```
function fibonacci_sequence(num_terms)
    % Initialize the first two terms of the sequence
    fib_sequence = [0, 1];

    if num_terms < 1
        disp('Number of terms should be greater than
        or equal to 1.');
```

Code 1. Example of matlab code.

```
import numpy as np
import matplotlib.pyplot as plt
from scipy.optimize import curve_fit

def linear_model(x, m, b):
    return m * x + b

def fit_regression(x, y, ex, ey):
    # Ajuste ponderado por errores en y
    popt, pcov = curve_fit(linear_model, x, y, sigma=
    ey, absolute_sigma=True)
    m_opt, b_opt = popt
    perr = np.sqrt(np.diag(pcov))
    m_err = perr[0] # Incertidumbre en la pendiente
    return m_opt, b_opt, m_err

def plot_regression(x, y, ex, ey, m_opt, b_opt, m_err):
    plt.errorbar(x, y, xerr=ex, yerr=ey, fmt='o',
    label='Datos', ecolord='gray', capsize=3)
```

Code 2. Example of Python code.

```
Pseudo Code:
Read isfive
If(isfive = 5)
    Write "your number is 5"
Else if (isfive = 6)
    Write "your number is 6"
Else
    Write "your number is not 5 or 6"
```

Code 3. Example of Pseudo-code.

During the paper edition process, line numbering will be enabled to facilitate the referee revision. We recommend placing the command `\nolinenumbers` at the beginning and `\linenumbers` at the end of the code. This temporarily removes the line numbering from the manuscript and provides code line numbers.