

RMxAA L^AT_EX template for article preparation v4.6

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[†]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^AT_EX 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(ρ) L^AT_EX class, specially designed for academic purposes. It is assumed that you are already familiar with the rudiments of L^AT_EX. 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^AT_EX y funciona como un template 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 (ρ) L^AT_EX, especialmente diseñada para propósitos académicos. Se asume que el autor está familiarizado con los rudimentos de L^AT_EX. En caso de que no sea así, recomendamos los manuales que provee la plataforma Overleaf (<https://www.overleaf.com/learn/latex/Tutorials>).

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1. INTRODUCTION

Welcome to the RMxAA L^AT_EX 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* style¹. 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 (February 10, 2026). Its use requires a relatively recent version of L^AT_EX, although it is optimized to work directly online using Overleaf. The current version of the L^AT_EX Project Public License is 1.3c (2008). For the author who requires a general introduction to L^AT_EX, we recommend starting at The L^AT_EX Project website <https://www.latex-project.org/about/>, or using the Overleaf L^AT_EX 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)).

¹The RMxAA paper template is based on the rho L^AT_EX 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,

35 \documentclass{title text}

2.2. Author information

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

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

51 and the affiliation details with the command line

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

2.3. Footer information

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

2.4. Corresponding author information

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

2.5. Keywords

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

2.6. Abstract

72 In this section, you need to provide the abstract in both Spanish
 73 and English. The abstract text may contain several paragraphs,
 74 but it should not be overly long, as both abstracts must fit on
 75 the first page². The recommended length is 200 words for both
 76 English and Spanish abstracts. If the authors are unable to provide
 77 a Spanish version of the abstract, you can use the same text as the
 78 English abstract, and our editors will take care of it.

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

3. MAIN BODY

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

²this is a footnote

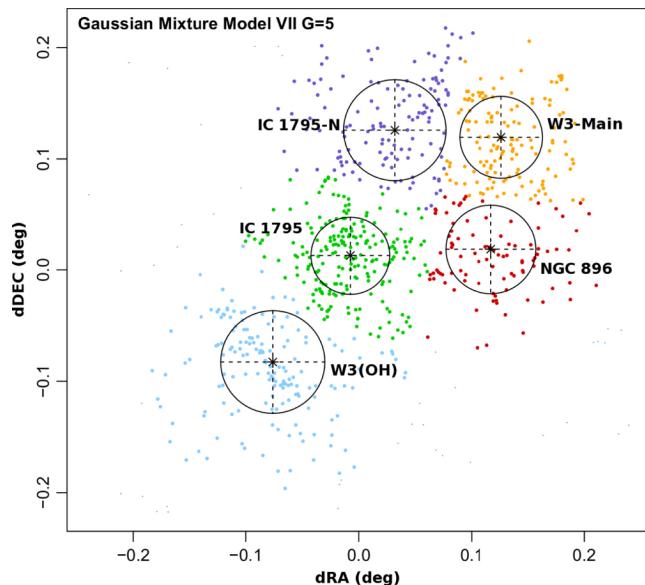


Figure 1. Example figure, from Román-Zúñiga et al. (2015).

\begin{document} 85
 ... 86
 ARTICLE TEXT 87
 ... 88
 \end{document} 89

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 L^AT_EX
 commands can be used. The commands provided by many
 optional packages distributed with L^AT_EX 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 L^AT_EX sectioning
 commands to subdivide their articles as follows:

\section 105
 \subsection 106
 \subsubsection 107
 \paragraph 108

Please use standard L^AT_EX 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).

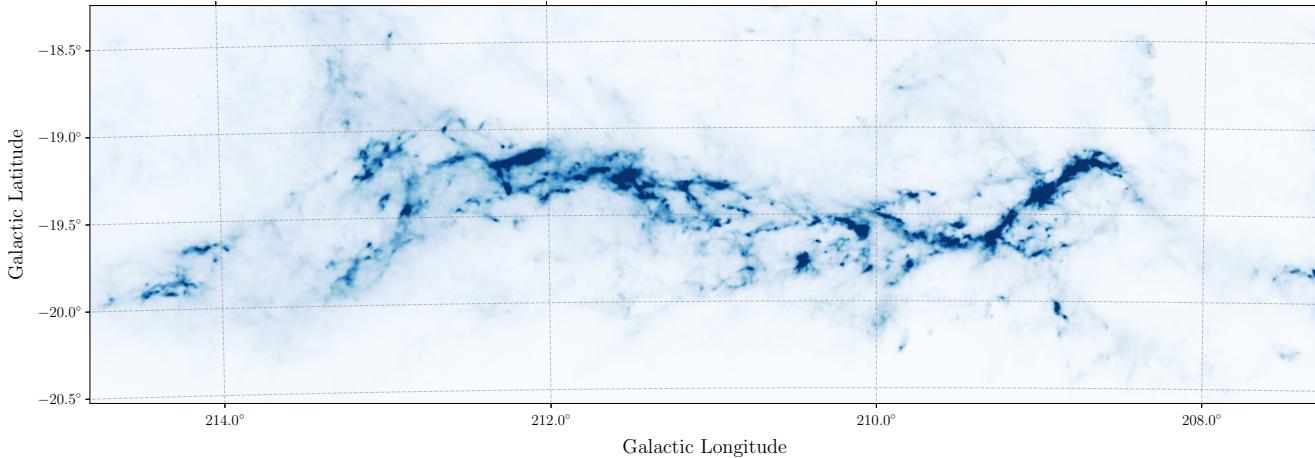


Figure 2. Second example figure

120 It is preferable to use the `\label`/`\ref` mechanism for cross-
 121 references to minimize the chance of errors and to allow automatic
 122 hyperlinks in the PDF output. The style that should be used for
 123 cross-references is, for example, Figure 3, Table 1, Equation (12),
 124 and §5.1, where the symbol of the section “§” is produced by the
 125 L^AT_EX command “§” S.

3.2. Math Symbols and Equations

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

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

130 Physical units should be in roman with thin spaces: 10 K, 1.2 \times
 131 10^{-12} erg cm⁻² s⁻¹, etc.

132 Things generally come out best if you place an entire expression
 133 within a single pair of \$'s and then make judicious use of `\mathit{}`. For example,

$$137 \text{FWHM} = \int N_e N_i dz$$

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

143 The `\frac` command (and its T_EX relative `\over`) is best used
 144 only in displayed equations, as in this case: Something like

$$145 x = \frac{a+b}{c} \quad (1)$$

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

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

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

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

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```

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3.2.1. Equations

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

$$159 \frac{\hbar^2}{2m} \nabla^2 \Psi + V(\mathbf{r}) \Psi = -i\hbar \frac{\partial \Psi}{\partial t} \quad (2)$$

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

$$162 R^{\alpha}_{\epsilon\mu\nu} := \partial_{\mu} \Gamma^{\alpha}_{\nu\epsilon} - \partial_{\nu} \Gamma^{\alpha}_{\mu\epsilon} + \Gamma^{\sigma}_{\nu\epsilon} \Gamma^{\alpha}_{\mu\sigma} - \Gamma^{\sigma}_{\mu\epsilon} \Gamma^{\alpha}_{\nu\sigma}, \quad (3)$$

163 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
 164 *splitting* (Barrientos & Mendoza, 2017):

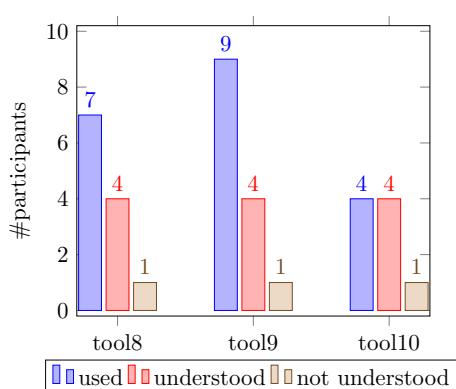
$$165 R_{\mu\nu} = R_{\mu\nu}(\{\}) + \tilde{\nabla}_{\nu} K^{\alpha}_{\alpha\mu} - \tilde{\nabla}_{\alpha} K^{\alpha}_{\nu\mu} + K^{\sigma}_{\nu\mu} K^{\alpha}_{\alpha\sigma} - K^{\sigma}_{\alpha\mu} K^{\alpha}_{\nu\sigma}, \quad (4)$$

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

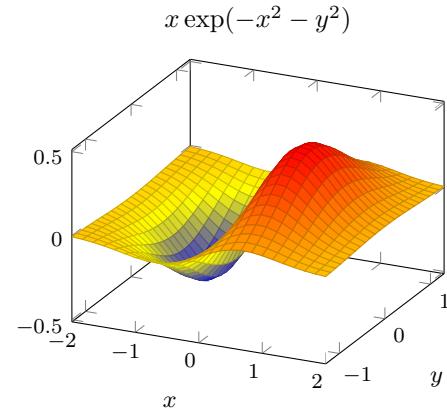
$$169 R_{\mu\nu} \{ \} - \frac{1}{2} g_{\mu\nu} R \{ \} - \frac{1}{2} g_{\mu\nu} \kappa (\tilde{\nabla}_{\alpha} T^{\alpha} + T^{\alpha} T_{\alpha})^b + \kappa b (\tilde{\nabla}_{\alpha} T^{\alpha} + T^{\alpha} T_{\alpha})^{b-1} T_{\mu} T_{\nu} - \kappa b T_{\nu} \tilde{\nabla}_{\mu} [(\tilde{\nabla}_{\alpha} T^{\alpha} + T^{\alpha} T_{\alpha})^{b-1}] = \frac{8\pi G}{c^4} \Sigma_{\mu\nu}, \quad (5)$$

170 for the null variations with respect to the metric, and

$$171 2 T_{\mu} (\tilde{\nabla}_{\alpha} T^{\alpha} + T^{\alpha} T_{\alpha})^{b-1} = \tilde{\nabla}_{\mu} [(\tilde{\nabla}_{\alpha} T^{\alpha} + T^{\alpha} T_{\alpha})^{b-1}] \quad (6)$$



(a) Example left figure.



(b) Example right figure.

Figure 3. Example figure that covers the width of the page obtained from PGFPlots Feuersänger (2012). In this case, the caption length is quite long, so it is justified at the edges.

172 3.3. Special symbols

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

Table 1. Astronomy special symbols commands.

Command	Output	Meaning
\sun	⊕	Sun, solar
\earth	⊕	Earth, terrestrial
\micron	μm	microns
\degr	°	degrees
\arcmin	'	arcminutes
\arcsec	"	arcseconds
\fdg	°	fraction of a degree
\farcm	!	fraction of an arcminute
\farcs	"	fraction of an arcsecond
\fd	°	fraction of a day
\fh	°	fraction of an hour
\fm	°	fraction of a minute
\fs	°	fraction of a second
\fp	°	fraction of a period
\sq	□	square, Q.E.D.

175 3.4. Ionization states

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

180 4. CONCEPT HIGHLIGHT BOX

181 The new RMxAA L^AT_EX macro allows the authors to use a colored
182 box to highlight a concept or equation, as shown in this example.

183 The labels and reference points of the sections are included.
184 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
187 of one column. In most cases, this is a good option for displaying
188 a relatively simple scatter plot or a histogram. We require that the
189 font size of the axis labels be at least as large as that of the caption.
190

5.2. Sample wide figure

Figure 2 shows an example of another relatively simple figure,
192 but this time the width of the figure is as large as the width of the
193 page. In this example, the figure is placed at the top of the page.
194

5.3. Sample double figure

Figure 3 shows an example of a floating figure with two separate
196 panels covering the width of the page. The figure can be placed
197 at the top or bottom of the page. The space between the figures
198 can also be modified using the \hspace{Xpt} command.
199

5.4. Sample simple table

Similar to figures, tables can be placed in one or two columns,
201 depending on their length.
202

Table 1 is an example of a relatively simple table, with three
203 columns, which is narrow enough to be shown inside a single
204 column. The example is also useful as a quick guide to symbols
205 commonly used in astronomy.
206

5.5. Sample wide table

Table 2, shows a second example of a table. This time, the content
208 of the table is more adequate for a larger horizontal size. The
209

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 L^AT_EX 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 and non-refereed 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 `\citet` for reference in parentheses, as in (Román-Zúñiga et al., 2023), and `\citet` for references with year in parentheses, as in Román-Zúñiga et al. (2023), 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.

REFERENCES

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	261
	262
	263
	264
	265
	266

Note: Obtained from Latex tables Wikimedia projects contributors (2023).

Table 3. My Results

FF		AA		BB		CC		DD		FF		GG		HH		II		JJJJ	
Ccccccccccc aaaaaaaaaaa	aaaaaa aaaaaa	aa aa aaaaaa	aaa	aaaa	aa + aaaaaa	a-aaaaaa	aa + aaaaaa	a-aaaaaa	aaa	aaaa	aaaaaa	aa + aaaaaa	a-aaaaaa	aa + aaaaaa	a-aaaaaa	aaa	aaaaaa	aaaaaa	
aaaaaaaaaa	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								
aaaaaaaaaa	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								
aaaaaaaaaa	0000	1111	22222	333333	444444	5555	66666	77777	88888	99999	10100								
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	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	11	22	33	44	55	66	77	88	99								

267 8. ACKNOWLEDGEMENTS

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

274 9. APPENDICES

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

```
278 \begin{appendices}
279 \section{First Appendix}
280 \label{sec:ap-A}
281 \{Text of first appendix.\}
282 \section{Second Appendix}
283 \label{sec:ap-B}
284 \{Text of second appendix.\}
285 \end{appendices}
```

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

290 10. CODES

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

```
1 function fibonacci_sequence(num_terms)
2 % Initialize the first two terms of the sequence
3 fib_sequence = [0, 1];
4
5 if num_terms < 1
6 disp('Number of terms should be greater than
7 % or equal to 1.');
8 return;
9 elseif num_terms == 1
10 fprintf('Fibonacci Sequence:\n%d\n',
11 % fib_sequence(1));
12 return;
13 elseif num_terms == 2
14 fprintf('Fibonacci Sequence:\n%d\n%d\n',
15 % fib_sequence(1), fib_sequence(2));
16 return;
17 end
18
19 % Calculate and display the Fibonacci sequence
20 for i = 3:num_terms
21 fib_sequence(i) = fib_sequence(i-1) +
22 % fib_sequence(i-2);
23 end
24
25 fprintf('Fibonacci Sequence:\n');
26 disp(fib_sequence);
27 end
```

Code 1. Example of matlab code.

```
1 import numpy as np
2 import matplotlib.pyplot as plt
3 from scipy.optimize import curve_fit
4
5 def linear_model(x, m, b):
6     return m * x + b
7
8 def fit_regression(x, y, ex, ey):
9     # Ajuste ponderado por errores en y
10    popt, pcov = curve_fit(linear_model, x, y, sigma=
11    ↪ ey, absolute_sigma=True)
12    m_opt, b_opt = popt
13    perr = np.sqrt(np.diag(pcov))
14    m_err = perr[0] # Incertidumbre en la pendiente
15    return m_opt, b_opt, m_err
16
17 def plot_regression(x, y, ex, ey, m_opt, b_opt, m_err):
18    ↪
19    plt.errorbar(x, y, xerr=ex, yerr=ey, fmt='o',
20    ↪ label='Datos', ecolor='gray', capsize=3)
```

Code 2. Example of Python code.

```
1 Pseudo Code:
2 Read isfive
3 If(isfive = 5)
4   Write "your number is 5"
5 Else if (isfive = 6)
6   Write "your number is 6"
7 Else
8   Write "your number is not 5 or 6"
```

Code 3. Example of Pseudo-code.

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