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ROMANIAN JOURNAL OF PHYSICS  
L<sup>A</sup>T<sub>E</sub>X 2<sub>ε</sub> CLASS FOR AUTHORS

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11 *Abstract.* This paper is supposed to act as a helpful example of how to correctly  
12 typeset your contributions before submitting them to the Romanian Journal of Physics.  
13 Please, beware that failing to provide your contribution using this L<sup>A</sup>T<sub>E</sub>X style may re-  
14 sult in indefinite delays in publishing your paper even after receiving the reviewers’  
15 recommendations for publication.

16 *Key words:* Physics literature and publications, editorials, publications in elec-  
tronic media, journal paper.

**1. L<sup>A</sup>T<sub>E</sub>X COMPATIBILITY**

17 The Romanian Journal of Physics (RJP) style was designed to allow authors,  
18 who use mainly L<sup>A</sup>T<sub>E</sub>X for typesetting their papers, to submit contributions to this  
19 journal of the Romanian Academy Publishing House. At the same time, by using  
20 this style, the authors will have much better control over the final layout of their  
21 paper and they will know the number of pages their contribution will occupy when  
22 bound in the printed volume (of course only if their contribution will first be accepted  
23 and recommended by RJP’s referees for publication).

24 The first version of this custom made class appeared in December 2010. Given  
25 the time of release the developer made the choice as to support only L<sup>A</sup>T<sub>E</sub>X versions  
26 newer than L<sup>A</sup>T<sub>E</sub>X 2<sub>ε</sub>. The style was developed for MikT<sub>E</sub>X 2.7 updated to the latest  
27 versions of its packages that were available in September 2010 when the work began.  
28 Though MikT<sub>E</sub>X is a distribution which is mostly centered on providing L<sup>A</sup>T<sub>E</sub>X sup-  
29 port for MS Windows OS, the class was also successfully tested on a major Linux  
30 distribution that uses T<sub>E</sub>XLive(2010). As of 2012 the development continues on ma-  
31 jor Linux distributions. Nevertheless, the developer encourages the contributing au-  
32 thors to test the present class on as many distributions and configurations as possible

\*On leave from Institute of Typesetting Wizards

33 and announce whenever they find incompatibilities or errors (please, use the follow-  
 34 ing e-mail address for reporting bugs and issues to the present developer Mr. A.T.  
 35 Grecu: redactor.rjp@gmail.com). For this purpose, we'll mention below the list of  
 36 incompatible packages as well as the list of used packages.

37 Due to the fact that the RJP style is a fresh document class (which tries to  
 38 comply as much as possible to an existing MS Word template) and the technical  
 39 support will be provided at least for some years to come, the style isn't yet included  
 40 in any major L<sup>A</sup>T<sub>E</sub>X 2<sub>ε</sub> distribution and it is also *modular*, meaning that its code  
 41 resides in more than one file. Therefore we recommend authors to keep all the files  
 42 (better the compressed archive available online) and copy them in a new directory  
 43 when starting to typeset a new contribution for RJP. Of course, every now and then  
 44 (in average every 6 months), you are advised to visit the RJP web site and look for  
 45 newer versions of this style. In the following, we give the list of files in which the  
 46 L<sup>A</sup>T<sub>E</sub>X code is contained, in order of their importance:

- 47 1. **rjparticle.cls** – here, the main code of the class resides;
- 48 2. **rjp\_fonts.cfg** – this file defines some font related parameters;
- 49 3. **rjp\_size1.clo** – here is the L<sup>A</sup>T<sub>E</sub>X code for page layout;
- 50 4. *rjp\_README.txt* – this file contains a very short version of the essential docu-  
 51 mentation for using the class and a (not very up-to-date) reference of the new and  
 52 changed L<sup>A</sup>T<sub>E</sub>X commands.

### 1.1. INCOMPATIBLE PACKAGES

53 The RJP style was designed to refuse loading specific packages either because  
 54 parts of them are already incorporated into the code, because they are (too) obsolete  
 55 or their usage leads to unwanted issues affecting the resulting PDF files. Although the  
 56 list of incompatible packages is expected to change quite often in time, we give here  
 57 the minimal list: **authblk**, **truncate**, **mathptmx**, **caption**, **subfigure**, **cite**, **pictexwd**.  
 58 The package **subfig** is however loaded but only in a special combination with the  
 59 package **caption** and using specific options, *i.e.*

```
60 \usepackage[labelseparator=none,font=footnotesize,justification=centerlast]{caption,  
61 subfig}
```

62 It is recommended that this particular suite of options should not to be changed by  
 63 the user.

### 1.2. AUTOMATICALLY LOADED PACKAGES

64 The packages which are loaded automatically by the RJP style are: **textcase**,  
 65 **truncate**, **xcolor** which are used internally, **amsfonts**, **amsmath**, **amssymb** to allow

66 authors to use the mathematical environments provided therein rather than the normal  
67 and limited  $\LaTeX 2_{\epsilon}$  environments (especially *eqnarray* is advised to be replaced by  
68 environments from the AMS style - *i.e. split, align*), **cite** to force compression of  
69 the citation lists and **upgreek** to allow authors to specify Greek characters in text  
70 mode according to the international publishing rules (straight symbols rather than  
71 slanted as in  $\LaTeX\text{math}$  mode especially when using units *e.g.*  $\mu\text{m}$ ). A further set of  
72 packages is explicitly loaded for use in the internals of the class: **textcase**, **truncate**,  
73 **ifpdf**, **placeins**, **randtext**, **natbib**, **hyperref**.

74 As the packages mentioned above are already loaded please do not use  
75 `\usepackage` command to load them again. If you need special options to be passed  
76 to them use the following command:

77 `\PassOptionsToPackage{<list_of_options>}{<package_name>}`,

78 for each package, before the `\documentclass{rjparticle}` declaration. Of course,  
79 passing or changing the tested package options may have unwanted effects and you  
80 should be aware you're doing this at your own risk, the RJP redaction assuming no  
81 liability for delays in processing your paper for publication.

82 In order to further ease the processing of their contributions, authors are rec-  
83 ommended **not** to define special commands in the header of their  $\LaTeX 2_{\epsilon}$  document  
84 without consulting the already defined commands in the file **rjp\_mathdefs.tex**. Defi-  
85 nition of short commands with the whole purpose of seemingly reducing the number  
86 of typed characters is strongly discouraged. Please, be aware that some of these  
87 commands may come in conflict with the macros used internally by the RJP redac-  
88 tional team which in turn would result in further delays in processing and publishing  
89 your accepted manuscript. A similar warning concerns the clogging of the document  
90 header with many unused commands which have to be tested individually before  
91 being removed from the processed document source.

### 1.3. RJP STYLE OPTIONS

92 The RJP article document class implements a small but growing number of  
93 options. Some of the options have the same names and mostly the same effect as the  
94 options of the standard  $\LaTeX$  *article* class while some of them are particular to the  
95 present class. Here is a list of the currently implemented options:

- 96 - *oneside* – option (common to article class) influences slightly the page layout and  
97 headers;
- 98 - *twoside* – option (common to article class) is the default option used by the *rjpar-*  
99 *article* class and has the same effect as its counter part in *article* class;
- 100 - *draft* – has the same effect as the option with the same name on packages like  
101 **graphicx**; besides it loads the package **showkeys** when used;



136 current author. The keys are recommended to be either number or lower case letters  
137 and they should be set incrementally starting with '1', respectively '\$a\$'. In the case  
138 that all the authors have the same affiliation this key may be absent. As one may  
139 notice analyzing the source of this document, we prefer the contact information such  
140 as emails to appear in the affiliation block corresponding to the author, alphabeti-  
141 cally indexed (whenever the affiliation is shared with other author(s)) and in italics.  
142 **Beware** that the responsibility of using the appropriate keys for author(s) and affil-  
143 iation(s) belongs to the authors of the scientific material! Obvious inconsistencies  
144 will be scrutinized by the editorial personnel when encountered but the RJP editorial  
145 office will not check the validity of the provided data nor it can be held responsible  
146 if invalid affiliations are published! As one may also notice the first argument of the  
147 `\author` command can contain links to various notes regarding the status of a specific  
148 author and this information is introduced using the command

149 `\authnote{<note_text>}`

150 (see the L<sup>A</sup>T<sub>E</sub>X source of this document for an example – Jane Doe). No comma must  
151 appear after the last *affiliation\_sign(s)* key and a following `\authnote` command.

152 In close relation to the author list, one must introduce the affiliation list using  
153 the command

154 `\affil[<affiliation_sign(s)>]{<affiliation_text>}`

155 where *affiliation\_sign(s)* is the specific symbol key used for (and only for) the cur-  
156 rently entered affiliation and which must also appear next to at least one of the authors  
157 in the author list. As for the author list the affiliation list must be defined in the exact  
158 order they need to appear in the text (keeping in mind that the keys must be in low-to-  
159 high order). The affiliation key may again be missing if and only if all the authors are  
160 affiliated to the same department, institute/company and so on. The *affiliation\_text*  
161 may contain the end-of-line command that should be used at specific points in the  
162 text where a new line is required for aesthetic reasons(symmetry of centred lines) or  
163 clarity. We recommend however that one should not abuse of this feature in order to  
164 minimize the vertical space occupied by such informations on the first page.

165 In version 1.1 from 2015 a new command (`\rjpNoMark`) was introduced for  
166 exclusive use in optional affiliation sign argument of `\author` and `\affil` commands  
167 to suppress the output of arabic 1 symbol when only one affiliation is defined for  
168 all(multiple) authors.

169 Among the new commands defined by the RJP style there are

170 `\keywords{<comma_separated_list_of_key_words>}`

171 which **must** appear in the header of the document (before `\begin{document}`) or at  
172 most before `\begin{abstract}` is issued to have any effect at all. Moreover the list of

173 key words should not end with a period '.' as it is automatically added by the class  
174 code.

175 `\pacs{<list_of_PACS_numbers>}`

176 allows one to specify PACS identifiers as a comma separated list.

177 There is a special environment for specifying the acknowledgements

178 `\begin{acknowledgement}...\end{acknowledgement}`

179 The acknowledgements are usually typeset in a font face of size 9pt so please do  
180 not use font size changing commands (they will be removed in editorial processing).  
181 Special formatting such as bold, italic or slanted are accepted and recommended as  
182 the way to emphasize any fragments of the text that you consider necessary.

### 3. EXAMPLES FOR VARIOUS ENVIRONMENTS

183 This section includes examples of different environments containing media and  
184 data material (the copyright of which is already owned by RJP) much needed in  
185 any good scientific publication. For instance below (in figure 1) we present a *figure*  
186 environment as it must appear in every contribution submitted to our journal (this  
187 picture is in PNG format so compiling must be done using *pdflatex* command rather  
188 than the usual *latex* command or one should specify the **pdftex** driver when loading  
189 the **graphicx** package).

190 Another environment with special formatting in our style is the *table* environ-  
191 ment, a sample of which is table 1. Please, do notice that the caption of tables is  
192 usually placed before the main body and therefore, you are required to write the  
`\caption{...}` command immediately after `\begin{table}...` !

Table 1

This table is taken from RJP volume **50**(1-2) from page 43 (2005). It gives the “*number of bound states dependence on the radius of space curvature for  $\alpha = 0.005, U_0 = 1$* ”.

Value $\rho$	Value $\varepsilon$
$\rho = 50$	–
$\rho = 100$	–
$\rho = 250$	$\varepsilon_1 = 0.0289$
$\rho = 400$	$\varepsilon_1 = 0.3772$
$\rho = 1000$	$\varepsilon_1 = 0.4142, \varepsilon_2 = 0.8495$

193 As RJP is a physics journal, an important part of the scientific language used  
194 in the publication is constituted by equations. One of the main reason for which the  
195 developer decided to include the AMS style within the RJP style is the appropriate  
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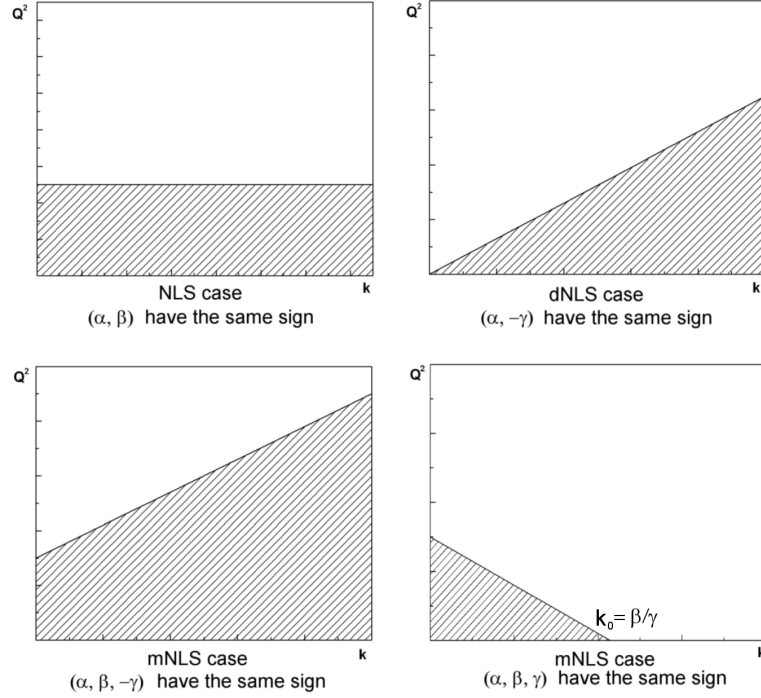


Fig. 1 – This is a sample picture taken from RJP volume **50**(1-2) from page 129 (2005). It illustrates (hashed areas) the instability domains for a series of nonlinear Schrödinger equations determined using the deterministic approach to modulational instability.

197 formatting of the mathematical environments. For instance the *split* or *align* environ-  
 198 nment is recommended as a very good replacement of the *eqnarray* environment. You  
 199 can see the difference between *split* and *eqnarray* in equation (1) and (2), respec-  
 200 tively. An even better layout may be obtained if one uses the *aligned* environment  
 201 inside the *equation* or the *multline* environment as in (3), respectively (4).

$$\begin{aligned}
 S_0[A^\mu, \dot{A}^\mu, \phi] = \int d^4x \mathcal{L} = \int d^4x \left( -\frac{1}{4} F_{\mu\nu} F^{\mu\nu} - \right. \\
 \left. - k \partial_\lambda F^{\alpha\lambda} \partial_\rho F_\alpha^\rho + \frac{1}{2} (\partial_\mu \phi - mA_\mu) (\partial^\mu \phi - mA^\mu) \right)
 \end{aligned}
 \tag{1}$$

$$\begin{aligned}
 S_0[A^\mu, \dot{A}^\mu, \phi] = \int d^4x \mathcal{L} = \int d^4x \left( -\frac{1}{4} F_{\mu\nu} F^{\mu\nu} - \right. \\
 \left. - k \partial_\lambda F^{\alpha\lambda} \partial_\rho F_\alpha^\rho + \frac{1}{2} (\partial_\mu \phi - mA_\mu) (\partial^\mu \phi - mA^\mu) \right)
 \end{aligned}
 \tag{2}$$

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$$S_0[A^\mu, \dot{A}^\mu, \phi] = \int d^4x \mathcal{L} = \int d^4x \left( -\frac{1}{4} F_{\mu\nu} F^{\mu\nu} - \right. \\ \left. - k \partial_\lambda F^{\alpha\lambda} \partial_\rho F_\alpha^\rho + \frac{1}{2} (\partial_\mu \phi - mA_\mu) (\partial^\mu \phi - mA^\mu) \right) \quad (3)$$

$$S_0[A^\mu, \dot{A}^\mu, \phi] = \int d^4x \mathcal{L} = \int d^4x \left( -\frac{1}{4} F_{\mu\nu} F^{\mu\nu} - \right. \\ \left. - k \partial_\lambda F^{\alpha\lambda} \partial_\rho F_\alpha^\rho + \frac{1}{2} (\partial_\mu \phi - mA_\mu) (\partial^\mu \phi - mA^\mu) \right) \quad (4)$$

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Please, be advised that since 2012 the RJP document class issues errors whenever more than 3 `eqnarray` environments are encountered in one section of an article! This measure was required due to abusive use of this environment which hinders the processing of documents before publishing.

The AMS style also allows one to easily make use of subequations

$$\frac{\ddot{a}_2}{a_2} + \frac{\ddot{a}_3}{a_3} + \frac{\dot{a}_2 \dot{a}_3}{a_2 a_3} - \frac{n^2}{a_3^2} = \kappa T_1^1, \quad (5a)$$

$$\frac{\ddot{a}_3}{a_3} + \frac{\ddot{a}_1}{a_1} + \frac{\dot{a}_3 \dot{a}_1}{a_3 a_1} - \frac{m^2}{a_3^2} = \kappa T_2^2, \quad (5b)$$

$$\frac{\ddot{a}_1}{a_1} + \frac{\ddot{a}_2}{a_2} + \frac{\dot{a}_1 \dot{a}_2}{a_1 a_2} + \frac{mn}{a_3^2} = \kappa T_3^3, \quad (5c)$$

$$\frac{\dot{a}_1 \dot{a}_2}{a_1 a_2} + \frac{\dot{a}_2 \dot{a}_3}{a_2 a_3} + \frac{\dot{a}_3 \dot{a}_1}{a_3 a_1} - \frac{m^2 - mn + n^2}{a_3^2} = \kappa T_0^0, \quad (5d)$$

$$m \frac{\dot{a}_1}{a_1} - n \frac{\dot{a}_2}{a_2} - (m - n) \frac{\dot{a}_3}{a_3} = \kappa T_3^0. \quad (5e)$$

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though one should consult the AMS user guide [23] when special features like splitting subequations between subsequent pages are needed (see [23] ver. 2.0, revised 2002, p. 9-10). Please notice that the `subequations` environment presents the advantage of referencing both the whole group of equations (5) or each of the sub-equations individually, *e.g.* (5c). Of course, there are other mathematical AMS environments that the author may use in their papers and to learn about them one should consult the afore-mentioned user guide.

#### 4. INSTEAD OF CONCLUSIONS

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The current style provides a few elements of both authenticity for us (the headers and footers) as well as a way for you, the author, to certify (to third parties) the submission of a manuscript to our journal. Most of the formatting is done automatically in the background so you **must not** interfere with elements such as page



223 layout parameters, spacing parameters used in various environments or font sizes.  
224 In 2012 a minimal mechanism was implemented to detect page layout modification.  
225 Upon detection the document output is stopped until the author removes the preamble  
226 commands or the packages causing the page geometry modification. We admit how-  
227 ever that in certain conditions (especially when lots of floating environments (figures  
228 and tables) are used) the author may need to issue special commands to force the  
229 output of floats on specific pages (such commands are `\clearpage`, `\newpage`, etc.).  
230 Of course these commands are allowed in your  $\LaTeX$  code. However, please do not  
231 drastically modify font sizes used in various environments nor force vertical or hori-  
232 zontal space in your article! Such actions will be considered an abuse and will hinder  
233 our efforts to publish your accepted paper as soon as possible, most likely leading to  
234 indefinite delays in publication. We also recommend that you do a spelling before  
235 submitting your article and use the `\hyphenation` command (or hyphenation marks)  
236 whenever necessary.

237 These recommendations should be taken into account together with the instruc-  
238 tions for authors available for consulting on the Romanian Journal of Physics web  
239 site when submitting articles written in  $\LaTeX$  to our journal. Please, be advised that  
240 failure to comply may lead to indefinite delays in the publication of your submitted  
241 article even if the referees gave you a positive recommendation!

242 The current style (Dec. 2013) is being constantly improved and patched, there-  
243 fore comments and contributions to the development of the code as well as help in  
244 debugging specific issues is and will always be highly regarded by our editorial team!

245 Last but not least, we give some **real** references to works by scientists who  
246 became very well-known (publicly) during the year 2010 in physics [24–26] and  
247 mathematics [27–29].

## 5. LOG OF CHANGES

5.1. version 2.0 r2022a

- 248 - Updated commands `\arxiv`, `\arxivold`, `\doi` to match definitions in the editorial  
249 style. These commands allow the inclusion of hyperlinks mainly in the bibliog-  
250 raphy. The two versions of the `\arxiv` command produce the hyperlinks to the  
251 abstract of the corresponding arXiv entry. The `...old` command requires two ar-  
252 guments to be able to construct the correct URL of the arXiv entry and it is to be  
253 used for references to entries before the major change in indexing in arXiv reposi-  
254 tory (when domain prefix was included in the URL). The newer `\arxiv` command  
255 treats the domain as an optional argument which (if present) will be typeset and  
256 not included in the linked URL. The `\doi[...text...]{...doi_code...}` com-  
257 mand needs two arguments, of which the first (if provided) is typeset as it is

- 258 otherwise it is replaced by the URL to the `doi.org` record, *e.g.*  
 259 `\doi{10.1111/210192810}`  $\rightarrow$  `https://doi.org/10.1111/210192810`  
 260 `\doi[J. Beaut. Typeset. 38, 1-12 (2022)]{10.2212/i222-ab123}`  $\rightarrow$  J. Beaut. Typeset. 38, 1-12 (2022)
- 261 - Imported commands `\emailca` and `\emails` from the editorial style. These com-  
 262 mands are to be used in the affiliation field(s) – the `\afill` command – to indicate  
 263 the “corresponding author” of a submitted paper or a list of emails for a given au-  
 264 thor, respectively. `\emailca` requires two arguments, where the first must match  
 265 the symbol in the upper indexes following the author name (`\author` command).  
 266 `\emails` has only one argument which is the list of emails (preferably separated  
 267 by commas and a space so that hyphenation is done correctly by the  $\LaTeX$  engine).
  - 268 - `\pacs` command to be marked as obsolete since the journal seems to not using  
 269 this information any longer. Please, rather provide at least 3 key words for your  
 270 contribution!

#### 5.2. version 2.0 r2018a

- 271 - disable use of bibliographic data bases in `.bib` format according to EB decision

#### 5.3. version 2.0 r2017b

- 272 - changed bibliography code to avoid breaking bibliographic entries between pages

#### 5.4. version 1.1 r2016a

- 273 - added `mathlines` option to `lineno` package in order to count also lines with  
 274 mathematical formula
- 275 - bibliography style `rjpsstyle(.bst)` was customized to improve parsing of bib-  
 276 tex bibliography data bases. It is recommended that empty fields in records from  
 277 such data bases should be written as `<field name> = {}`,

#### 5.5. version 1.1 r2015a

- 278 - added `\rjpNoMark` command (see text above for details)
- 279 - change citation management package from `cite` to `natbib`
- 280 - included `hyperref` package to enable internal and external links in produced PDF  
 281 files
- 282 - two new commands `\arxiv` and `\doi` are introduced in order to facilitate linking  
 283 the references to external resources.

284 `\arxiv` has two arguments, one of which is mandatory and must be the article  
 285 number in the arXiv system. The optional argument is the domain abbreviation.  
 286 `\doi` takes also two arguments, the mandatory one being the Digital Object Identifier  
 287 (DOI) of the referenced external resource while the optional argument can  
 288 be whatever text the user wants to be displayed for the link in the PDF document.  
 289 When not provided a default text is inserted of the form DOI:<doi-number>.

#### 5.6. version 1.0 r2013b, class date: November, 2013

- 290 - adjusted alignment of subsequent lines in a bibliography entry
- 291 - adjourned this document and clean-up of `rjp_mathdefs.tex` auxiliary macro file.

#### 5.7. version 1.0 r2013a, class date: February 9, 2013

- 292 - command `\email` is available in `\affil` command

#### 5.8. RELEASE 2012c

- 293 - replaced **color** package by the modern, improved **xcolor** package
- 294 - the class now uses by default the **lineno** package in order to facilitate the review-  
 295 ing process by marking the lines in the manuscripts
- 296 - the **graphicx** package is now instructed to search for figures in `figs` directory under  
 297 the current path, *i.e.* `./figs/`

### 6. MACROS AVAILABLE IN `rjp_mathdefs.tex`

298 The list below contains the L<sup>A</sup>T<sub>E</sub>X macros available through the `rjp_mathdefs.tex`  
 299 file. Please, do consider these macros and try to avoid redefining or clashing with  
 300 their names in your own contribution. Contrarily to limitations on the definition and  
 301 use of user macros which other journals enforce, most of the macros described be-  
 302 low are introduced using the `\providecommand` command which gives you the liberty  
 303 to overwrite them at will. However, we would very much appreciate and acknowl-  
 304 edge if you minimize in your contribution the use of packages or user macros the  
 305 functionality of which is not needed to generate the final PDF document (*i.e.* be-  
 306 fore sending your contribution please, take a few extra minutes to remove un-used  
 307 `\usepackage{...}` and macros from your L<sup>A</sup>T<sub>E</sub>X file).

308 `\beq ... \eeq` – these shortcut command replace the start and end commands for  
 309 the equation environment; `beq` has an optional argument which is used as the label  
 310 of the equation, therefore avoid starting your equation with the '[' character place

311 right after `\beq`.  
 312 `\beqn ... \eeqn` – shortcut command for the star version of the equation envi-  
 313 ronment  
 314 `\jsn,...\jds,...\jcd` – the complete list of Jacobi elliptic functions defined by pre-  
 315 pending `j` to their names as consecrated in literature  
 316 `\ddiv` and `\grad` – if you prefer to avoid denoting the operators using  $\nabla$ .  
 317 `\ee` – the transitional number  $e = 2.7178\dots$  as a mathematical operator (straight font)  
 318 `\Tr` – the matrix trace operator in straight font  
 319 `\Img/\Re1` – to specify the imaginary part coefficient/real part for a complex quantity  
 320  $z$  so that  $z = \text{Re}z + i \text{Im}z$   
 321 `\sgn` – the sign function in straight font  
 322 `\cosec` – the co-secant trigonometric function ( $1/\cos$ )  
 323 `\artanh` – the inverse of the  $\tanh$  hyperbolic function ( $\tanh^{-1}$ )  
 324 `\sech` and `\cosech` – hyperbolic functions  $1/\cosh$  and  $1/\sinh = \text{csch}$ , respectively.  
 325 `\eps` – for  $\varepsilon$   
 326 `\cc` – to input complex conjugate abbreviation in math and text mode followed by a  
 327 small (non-breakable) blank  
 328 `\ict` – to input  $\mathcal{C}$  in math mode and  $C$  in text mode as a symbol for an arbitrary inte-  
 329 gration constant  
 330 `\pd` – shortcut for  $\partial$ , partial derivative in math mode  
 331 `\fd` – output the full derivative symbol ( $d$ ) in straight font in math mode (very useful  
 332 for writing nice derivatives and integrals)  
 333 `\bra`, `\ket` and `\braket` – to print out bra and ket wave-vectors with correct scaling of  
 334 the surrounding symbols (1 argument) or the quantum matrix element of an operator  
 335 given as first argument between two states given as argument 2 and 3 for bra and ket  
 336 states respectively  
 337 `\fudbud[5]`, `\fubu[3]`, `\fdbu[3]`, `\fbd[3]`, `\fubd[3]` – series of commands to ar-  
 338 range more conveniently upper and lower indexes in front and after a central sym-  
 339 bol/token given first argument of the commands; the names are derived from “front  
 340 up-down, back up-down” and the corresponding letter combination dictates also the  
 341 order of the remaining arguments, e.g. `\fubu{A}{i}{j}` will produce  ${}^iA^j$ .  
 342 *Set of commands for abbreviation formatting:*  
 343 `\eg`  $\rightarrow$  *e.g.*; `\ie`  $\rightarrow$  *i.e.*; `\etal`  $\rightarrow$  *et al.*

344 This list of macros is meant to grow and evolve with the requirements of the  
 345 Romanian Journal of Physics publishing authors so please, do not hesitate to contact  
 346 the developer of this style for bugs or special commands that you want us to consider  
 347 for inclusion. Also, please, take into account that the list published here may not  
 348 always be up to date.

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