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Article Title	007
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First Author ^{1,2*} , Second Author ^{2,3†} and Third Author ^{1,2†}	010
^{1*} Department, Organization, Street, City, 100190, State, Country.	011
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*O 1	016
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Contributing authors: iiauthor@gmail.com; iiiauthor@gmail.com;	018
[†] These authors contributed equally to this work.	019
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Abstract	022
The abstract serves both as a general introduction to the topic and	023
as a brief, non-technical summary of the main results and their im-	024
plications. Authors are advised to check the author instructions for	025
the journal they are submitting to for word limits and if struc-	026
tural elements like subheadings, citations, or equations are permitted.	027
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Keywords: keyword1, Keyword2, Keyword3, Keyword4	029
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1 Introduction	034
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The Introduction section, of referenced text [1] expands on the background	036
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047 planning to submit to as there may be journal-level preferences. When prepar-048 ing your text please also be aware that some stylistic choices are not supported 050 in full text XML (publication version), including coloured font. These will not 052 be replicated in the typeset article if it is accepted.

 $\begin{array}{c} 053 \\ 054 \end{array}$

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2 Results

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3 This is an example for first level

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head—section head

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3.1 This is an example for second level head—subsection head

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4 Equations

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Equations in LyX can either be in line or on-a-line by itself ("display equations"). The equation $H\psi=E\psi$ is in line. For display equations (with auto generated equation numbers) one can use the EQUATION or EqnArray

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environments:

$$\|\tilde{X}(k)\|^{2} \leq \frac{\sum_{i=1}^{p} \|\tilde{Y}_{i}(k)\|^{2} + \sum_{j=1}^{q} \|\tilde{Z}_{j}(k)\|^{2}}{p+q}$$
 (1)

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where

$$D_{\mu} = \partial_{\mu} - ig \frac{\lambda^a}{2} A^a_{\mu}$$

$$F^a_{\mu\nu} = \partial_{\mu} A^a_{\nu} - \partial_{\nu} A^a_{\mu} + g f^{abc} A^b_{\mu} A^a_{\nu}$$
(2)

$$Y_{\infty} = \left(\frac{m}{\text{GeV}}\right)^{-3} \left[1 + \frac{3\ln(m/\text{GeV})}{15} + \frac{\ln(c_2/5)}{15}\right]$$

Commands like \mathbb{R} , \mathcal{R} , \mathcal{R} are also supported.

Tables

Tables can be inserted via the normal table and tabular environment.

Table 1 Caption text

Column 1	Column 2	Column 3	Column 4
row 1	data 1	data 2	data 3
row 2	data 4	data 5^1	data 6
row 3	data 7	data 8	data 9^2

Source: This is an example of table footnote.

This is an example of table footnote.

Table 2 Example of a lengthy table which is set to full textwidth

	Element 1 ¹			Element 2 ²		
Project	Energy	σ_{calc}	σ_{expt}	Energy	σ_{calc}	σ_{expt}
Element 3	990 A	1168	1547±12	780 A	1166	1239±100
Element 4	500 A	961	$922 {\pm} 10$	900 A	1268	1092 ± 40

Note: This is an example of table footnote. This is an example of table footnote this is an example of table footnote this is an example of table footnote this is an example of table

¹Example for a first table footnote.

²Example for a second table footnote.

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		Element 1^1			Element 2^2	
Project	Energy	σ_{calc}	σ_{expt}	Energy	σ_{calc}	σ_{expt}
Element 3	990 A	1168	1547±12	780 A	1166	1239 ± 100
Element 4	500 A	961	922 ± 10	900 A	1268	1092 ± 40
Element 5	990 A	1168	$1547{\pm}12$	780 A	1166	1239 ± 100
Element 6	500 A	961	922 ± 10	900 A	1268	1092 ± 40

Table 3 Example of a rotated large table

Note: This is an example of table footnote. This is an example of table footnote this is an example of table footnote this is an example of "table footnote".

this is an example of table footnote. $^a\mathrm{Example}$ for a first table footnote. $^b\mathrm{Example}$ for a second table footnote.

	Short Title 5	
6 Figures		185
		186 187
Figures are included as usual		188
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\includegraphics[options] { <eps-file} 1="" a="" an="" caption="" example="" figure="" is="" long="" of="" td="" this="" this<="" widefig.=""><td></td><td>190</td></eps-file}>		190
caption this is an example of long caption this is an example of long		191 192
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7 Algorithms, program codes and list	tings	196
		197 198
Packages ALGORITHM, ALGORITHMICX and ALGPSEUDOCO	DE can be used for	199
setting algorithms. You may refer above listed package d	locumentations for	200
more details before setting ALGORITHM environment. For p	orogram codes, the	201 202
·		203
PROGRAM package is required. A fast exponentiation proce	dure:	204
		205
begin		$\frac{206}{207}$
•		207
for $i := 1$ to 10 step 1 do		209
expt(2,i);		210
newline() od Comments will be set flush t	to the right margin	211 212
*		213
where		214
$proc\;expt(x,n)\;\equiv\;$		215
z := 1;		216 217
,		218
do if $n=0$ then exit fi;		219
do if $odd(n)$ then exit fi;		220
comment: This is a comment statement;		$\frac{221}{222}$
		223
$n:=n/2;\;x:=x*x\;od;$		224
${n>0};$		225
$n := n - 1; \ z := z * x $		$\frac{226}{227}$
		228
print(z).		229

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231
     Algorithm 1 Calculate y = x^n
232
     Require: n > 0 \lor x \neq 0
233
     Ensure: y = x^n
234
       1: y \Leftarrow 1
235
       2: if n < 0 then
236
             X \Leftarrow 1/x
237
             N \Leftarrow -n
       4:
238
       5: else
239
             X \Leftarrow x
       6:
240
       7:
             N \Leftarrow n
241
       8: end if
242
       9: while N \neq 0 do
243
             if N is even then
      10:
244
                 X \Leftarrow X \times X
      11:
245
      12:
                 N \Leftarrow N/2
246
             else[N \text{ is odd}]
      13:
247
                 y \Leftarrow y \times X
      14:
248
                 N \Leftarrow N - 1
      15:
249
             end if
250
      17: end while
251
252
253
254
     for i:=maxint to 0 do
255
     begin
256
      { do nothing }
257
     end;
258
     Write ('Case_insensitive_');
259
     Write ('Pascal_keywords.');
260
261
262
263
     end
264
265
         For listings, you can use the builtin LyX features. Refer to the LSTLISTING
266
     package documentation for more details.
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     8 Cross referencing
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     Environments such as figure, table, equation and align can have a label
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     declared, using the LyX "insert label" function. For figures and table environ-
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     ments put the label inside the caption. You can refer to labels by using the
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"Insert cross reference" function. Examples: Fig. 1, eq. (2), equation (1) on page 3, figure 1 on page 5, Section Results, label sec:Results.

To reference line numbers in an algorithm, consider the label declared for the line number 2 of Algorithm alg:exp is algln2. To cross-reference it, use ERT, e.g. line 2 of Algorithm 1.

8.1 Details on reference citations

To support both numerical and author-year citations this template uses NATBIB package. For style guidance please refer to the template user manual.

Here is an example of citation: [1]. All cited bib entries are printed at the end of this article: [2, 3, 4, 5], refs. 6, 7, 8, [9, 10, 11].

9 Examples for theorem like environments

For theorem like environments, we require AMSTHM package. For mathematics journals, theorem styles can be included as shown in the following examples:

Theorem 1 (Theorem subhead) Example theorem text. Example theorem text.

Sample body text. Sample body text. Sample body text. Sample body text. Sample body text. Sample body text.

Proposition 2 Example proposition text. Example proposition text. Example proposition text. Example proposition text. Example proposition

Remark 1 Phasellus adipiscing semper elit. Proin fermentum massa ac quam. Sed diam turpis, molestie vitae, placerat a, molestie nec, leo. Maecenas lacinia. Nam ipsum ligula, eleifend at, accumsan nec, suscipit a, ipsum. Morbi blandit ligula feugiat magna. Nunc eleifend consequat lorem

Sample body text. Sample body text.

Definition 1 Example definition text. Example definition text.

Additionally a predefined PROOF environment is available. This prints a "Proof" head in italic font style and the "body text" in roman font style with an open square at the end of each proof environment.

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Proof Example for proof text. Example for proof text.

Sample body text. Sample body text. Sample body text. Sample body text. Sample body text. Sample body text.

Proof of Theorem 1 Example for proof text. Example for proof text.

For a quote environment, use

Quoted text example. Aliquam porttitor quam a lacus. Praesent vel arcu ut tortor cursus volutpat. In vitae pede quis diam bibendum placerat. Fusce elementum convallis neque. Sed dolor orci, scelerisque ac, dapibus nec, ultricies ut, mi. Duis nec dui quis leo sagittis commodo.

10 Methods

Topical subheadings are allowed. Authors must ensure that their Methods section includes adequate experimental and characterization data necessary for others in the field to reproduce their work. Authors are encouraged to include RIIDs where appropriate.

Ethical approval declarations (only required where applicable) Any article reporting experiment/s carried out on (i)~live vertebrate (or higher invertebrates), (ii)~humans or (iii)~human samples must include an unambiguous statement within the methods section that meets the following requirements:

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- 415 1. Approval: a statement which confirms that all experimental protocols were 416 approved by a named institutional and/or licensing committee. Please 418 identify the approving body in the methods section
- 420 2. Accordance: a statement explicitly saying that the methods were carried 421 out in accordance with the relevant guidelines and regulations
- 423 3. Informed consent (for experiments involving humans or human tissue sam-425 ples): include a statement confirming that informed consent was obtained 426 from all participants and/or their legal guardian/s

If your manuscript includes potentially identifying patient/participant infor-429 430 mation, or if it describes human transplantation research, or if it reports results 431 432of a clinical trial then additional information will be required. Please visit 433 https://www.nature.com/nature-research/editorial-policies for Nature Port-434 435folio journals, https://www.springer.com/gp/authors-editors/journal-author/ 436 437journal-author-helpdesk/publishing-ethics/14214 for Springer Nature jour-438 https://www.biomedcentral.com/getpublished/editorial-policies# 439 440 ethics+and+consent for BMC.

11 Discussion

Discussions should be brief and focused. In some disciplines use of Discussion or Conclusion is interchangeable. It is not mandatory to use both. Some journals prefer a section Results and Discussion followed by a section Conclusion. Please refer to Journal-level guidance for any specific requirements.

12 Conclusions

Conclusions may be used to restate your hypothesis or research question, restate your major findings, explain the relevance and the added value of your

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work, highlight any limitations of your study, describe future directions for
research and recommendations.
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mentary file/s please state so here. Authors reporting data from electrophoretic
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must contain the following sections under the heading 'Declarations':
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• Conflict of interest/Competing interests (check journal-specific guidelines
for which heading to use)
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• Consent to participate

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508 • Authors' contributions

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Appendix A Section title of first appendix

An appendix contains supplementary information that is not an essential part of the text itself but which may be helpful in providing a more comprehensive understanding of the research problem or it is information that is too cumbersome to be included in the body of the paper.

Appendix B Example of another appendix section

Appendices may be used for helpful, supporting or essential material that would otherwise clutter, break up or be distracting to the text. Appendices can consist of sections, figures, tables and equations etc.

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14 Short Title

599	[11] Chung, S.T., Morris, R.L.: Isolation and characterization of plasmid de-
600 601	oxyribonucleic acid from Streptomyces fradiae. Paper presented at the
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603	3rd international symposium on the genetics of industrial microorganisms,
604	University of Wisconsin, Madison, 4–9 June 1978 (1978)
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