

Sample for Ergodic Theory and Dynamical Systems Class file

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Abstract. Abstracts should be 250 words. It must be able to stand alone and so cannot contain citations to the paper's references, equations, etc. An abstract must consist of a single paragraph and be concise. Because of online formatting, abstracts must appear as plain as possible.

Key words: keyword1, keyword2, keyword3, keyword4

2020 Mathematics Subject Classification: 70H08 (Primary), 37J40 (Secondary)

1. *This is an A head this is an A head this is an A head*

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FIGURE 1: This is a widefig. This is an example of long caption this is an example of long caption this is an example of long caption this is an example of long caption.

3. Equations

Equations in \LaTeX can either be inline or on-a-line by itself. For inline equations use the $\$. . . \$$ commands. Eg: The equation $H\psi = E\psi$ is written via the command $H\psi = E\psi$.

For on-a-line by itself equations (with auto generated equation numbers) one can use the `equation` or `eqnarray` environments D .

$$\mathcal{L} = i\psi\gamma^\mu D_\mu\psi - \frac{1}{4}F_{\mu\nu}^a F^{a\mu\nu} - m\psi\psi \quad (3.1)$$

where,

$$\begin{aligned} D_\mu &= \partial_\mu - ig \frac{\lambda^a}{2} A_\mu^a \\ F_{\mu\nu}^a &= \partial_\mu A_\nu^a - \partial_\nu A_\mu^a + g f^{abc} A_\mu^b A_\nu^c \end{aligned} \quad (3.2)$$

Notice the use of `\nonumber` in the `align` environment at the end of each line, except the last, so as not to produce equation numbers on lines where no equation numbers are required. The `\label{ }` command should only be used at the last line of an `align` environment where `\nonumber` is not used.

$$Y_\infty = \left(\frac{m}{\text{GeV}}\right)^{-3} \left[1 + \frac{3 \ln(m/\text{GeV})}{15} + \frac{\ln(c_2/5)}{15} \right] \quad (3.3)$$

The class file also supports the use of `\mathbb{ }`, `\mathscr{ }` and `\mathcal{ }` commands. As such `\mathbb{R}`, `\mathscr{R}` and `\mathcal{R}` produces \mathbb{R} , \mathscr{R} and \mathcal{R} respectively.

4. Figures

As per the \LaTeX standards `eps` images in `latex` and `pdf/jpg/png` images in `pdflatex` should be used. This is one of the major differences between `latex` and `pdflatex`. The images should be single page documents. The command for inserting images for `latex` and `pdflatex` can be generalized. The package that should be used is the `graphicx` package.

5. Tables

Tables can be inserted via the normal `table` and `tabular` environment. To put footnotes inside tables one has to use the additional “`fntable`” environment enclosing the `tabular` environment. The footnote appears just below the table itself.

Table 1: Tables which are too long to fit, should be written using the “table*” environment as shown here

Projectile	Element 1			Element 2 ¹		
	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

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6. Cross referencing

Environments such as figure, table, equation, align can have a label declared via the `\label{#label}` command. For figures and table environments one should use the `\label{}` command inside or just below the `\caption{}` command. One can then use the `\ref{#label}` command to cross-reference them. As an example, consider the label declared for Figure 1 which is `\label{fig1}`. To cross-reference it, use the command `Figure \ref{fig1}`, for which it comes up as “Figure 1”. The reference citations should used as per the “natbib” packages. Some sample citations: [1, 2, 3, 4, 5].

7. Lists

List in \LaTeX can be of three types: enumerate, itemize and description. In each environments, new entry is added via the `\item` command. Enumerate creates numbered lists, itemize creates bulleted lists and description creates description lists.

- (1) First item in the number list.
- (2) Second item in the number list.
- (3) Third item in the number list.

List in \LaTeX can be of three types: enumerate, itemize and description. In each environments, new entry is added via the `\item` command.

- First item in the bullet list.
- Second item in the bullet list.
- Third item in the bullet list.

A. Appendix. Title for Appendix Section

Appendix text here.

Acknowledgements. We are grateful for the technical assistance of A. Author.

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