

**For proceedings contributors:
Using World Scientific's WS-procs9X6
document class in L^AT_EX2e**

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This article explains how to use World Scientific's ws-procs9x6 document class written in L^AT_EX2e. This article was typeset using ws-procs9x6.cls and may be used as a template for your contribution.

Keywords: Style file; L^AT_EX; Proceedings; World Scientific Publishing.

1. Using Other Packages

The class file loads the packages `amsfonts`, `amsmath`, `amssymb`, `chapterbib`, `natbib`, `graphicx`, `rotating` and `url` at startup. Please try to limit your use of additional packages as they often introduce incompatibilities. This problem is not specific to the WSPC styles; it is a general L^AT_EX problem. Check this document to see whether the required functionality is already provided by the WSPC class file. If you do need additional packages, send them along with the paper. In general, you should use standard L^AT_EX commands as much as possible.

2. Layout

In order to facilitate our processing of your article, please give easily identifiable structure to the various parts of the text by making use of the usual L^AT_EX commands or by using your own commands defined in the preamble, rather than by using explicit layout commands, such as

\hspace, \vspace, \large, \centering, etc. Also, do not redefine the page-layout parameters. For more information on layout and font specifications, please refer to our [Layout and Font Specification Guide](#).

3. User Defined Macros

User defined macros should be placed in the preamble of the article, and not at any other place in the document. Such private definitions, i.e. definitions made using the commands \newcommand, \renewcommand, \newenvironment or \renewenvironment, should be used with great care. Sensible, restricted usage of private definitions is encouraged. Large macro packages and definitions that are not used in this example article should be avoided. Please do not change the existing environments, commands and other standard parts of L^AT_EX.

4. Using WS-procs9x6

You can obtain these files from the following website: <http://www.worldscientific.com/page/authors/proceedings-stylefiles> and <http://www.icpress.co.uk/authors/stylefiles.shtml#conference>.

4.1. *Input used to produce this paper*

```
\documentclass{ws-procs9x6}
\begin{document}
\title{For proceedings contributors: ...}
\author{A. B. Author\$^*\$ and C. D. Author}
\address{University Department, ...}
\begin{abstract}
This article explains how to ...
\end{abstract}
\keywords{Style file; \LaTeX, ...}
\bodymatter
\section{Using Other Packages}
The class file has ...
\bibliographystyle{ws-procs9x6}
\bibliography{ws-pro-sample}
\end{document}
```

5. Sectional Units

Sectional units are obtained in the usual way, i.e. with the L^AT_EX commands `\section`, `\subsection`, `\subsubsection` and `\paragraph`.

6. Section

This is just an example.

6.1. Subsection

This is just an example.

6.1.1. Subsubsection

This is just an example.

Paragraph This is just an example.

Unnumbered Section

Unnumbered sections can be obtained by using `\section*`.

7. Lists of Items

Lists are broadly classified into four major categories that can randomly be used as desired by the author:

- (a) Numbered list.
- (b) Lettered list.
- (c) Unnumbered list.
- (d) Bulleted list.

7.1. Numbered and lettered list

- (1) The `\begin{arabiclist}[]` command is used for the arabic number list (arabic numbers appearing within parenthesis), e.g., (1), (2), etc.
- (2) The `\begin{romanlist}[]` command is used for the roman number list (roman numbers appearing within parenthesis), e.g., (i), (ii), etc.
- (3) The `\begin{Romanlist}[]` command is used for the cap roman number list (cap roman numbers appearing within parenthesis), e.g., (I), (II), etc.

- (4) The `\begin{alphlist}[]` command is used for the alphabetic list (alphabets appearing within parenthesis), e.g., (a), (b), etc.
- (5) The `\begin{Alphlist}[]` command is used for the cap alphabetic list (cap alphabets appearing within parenthesis), e.g., (A), (B), etc.

Note: For all the above mentioned lists, it is obligatory to enter the last entry's number in the list within the square bracket, to enable unit alignment.

7.2. Bulleted and unnumbered list

The `\begin{itemlist}` command is used for the bulleted list.

The `\begin{unnumlist}` command is used for creating the unnumbered list with the turnovers hangindent by 1 pica.

Lists may be laid out with each item marked by a dot:

- item one
- item two
- item three.

Items may also be numbered with lowercase Roman numerals:

- (i) item one
- (ii) item two
 - (a) lists within lists can be numbered with lowercase Roman letters
 - (b) second item.
- (iii) item three
- (iv) item four.

8. Theorems and Definitions

Input:

```
\begin{theorem}
We have $\# H^2(M \supset N) < \infty$ for an inclusion ...
\end{theorem}
```

Output:

Theorem 8.1. *We have $\#H^2(M \supset N) < \infty$ for an inclusion $M \supset N$ of factors of finite index.*

Input:

```
\begin{theorem}[Longo, 1998]
For a given $Q$-system...
\[
N = \{x \in N; Tx = \gamma(x)T, T x^* = \gamma(x^*)T\},
\]
and $E_\Xi(\cdot) = T^* \gamma(\cdot) T$ gives ...
\end{theorem}
```

Output:

Theorem 8.2 (Longo, 1998). *For a given Q-system...*

$$N = \{x \in N; Tx = \gamma(x)T, T x^* = \gamma(x^*)T\},$$

and $E_\Xi(\cdot) = T^* \gamma(\cdot) T$ gives a conditional expectation onto N .

The following environments are available by default with WSPC document styles:

Environment	Heading	Sample output
algorithm	Algorithm	Algorithm 1.1. Sample text.
answer	Answer	Answer 1.1. Sample text.
assertion	Assertion	Assertion 1.1. Sample text.
assumption	Assumption	Assumption 1.1. Sample text.
case	Case	Case 1.1. Sample text.
claim	Claim	Claim 1.1. <i>Sample text.</i>
comment	Comment	Comment 1.1. Sample text.
condition	Condition	Condition 1.1. Sample text.
conjecture	Conjecture	Conjecture 1.1. <i>Sample text.</i>
convention	Convention	Convention 1.1. Sample text.
corollary	Corollary	Corollary 1.1. <i>Sample text.</i>
criterion	Criterion	Criterion 1.1. Sample text.
definition	Definition	Definition 1.1. Sample text.
example	Example	Example 1.1. Sample text.
lemma	Lemma	Lemma 1.1. <i>Sample text.</i>
notation	Notation	Notation 1.1. Sample text.
note	Note	Note 1.1. Sample text.
observation	Observation	Observation 1.1. Sample text.
problem	Problem	Problem 1.1. <i>Sample text.</i>
proposition	Proposition	Proposition 1.1. <i>Sample text.</i>
question	Question	Question 1.1. <i>Sample text.</i>
remark	Remark	Remark 1.1. Sample text.
solution	Solution	Solution 1.1. Sample text.
step	Step	Step 1.1. Sample text.
summary	Summary	Summary 1.1. Sample text.
theorem	Theorem	Theorem 1.1. <i>Sample text.</i>

\LaTeX provides `\newtheorem` to create new theorem environments. To add theorem-type environments to an article, use

```
\newtheorem{example}{Example}[section]
\let\Examplefont\upshape
\def\Exampleheadfont{\bfseries}

\begin{example}
We have $ \# H^2 (M \supset N) < \dots
\end{example}
```

For details see the \LaTeX user manual.^{1,2}

8.1. *Proofs*

The WSPC document styles also provide a predefined proof environment for proofs. The proof environment produces the heading ‘Proof’ with appropriate spacing and punctuation. It also appends a ‘Q.E.D.’ symbol, \square , at the end of a proof, e.g.,

```
\begin{proof}
This is just an example.
\end{proof}
```

to produce

Proof. This is just an example. \square

The proof environment takes an argument in curly braces, which allows you to substitute a different name for the standard ‘Proof’. If you want to display, ‘Proof of Lemma’, then write e.g.

```
\begin{proof}[Proof of Lemma]
This is just an example.
\end{proof}
```

produces

Proof of Lemma. This is just an example. \square

9. Programs and Algorithms

Fragments of computer programs and descriptions of algorithms should be prepared as if they were normal text. Use the same fonts for keywords, variables, etc., as in the text; do not use small typeface sizes to make program

fragments and algorithms fit within the margins set by the document style.
An example with only the tabbing environment and one new definition:

```
\newcommand{\keyw}[1]{\bf #1}

\begin{tabbing}
\quad \=\quad \=\quad \kill
\keyw{for} each $x$ \keyw{do} \\
\> \keyw{if} extension$(p, x)$ \\
\> \> \keyw{then} $E:=E\cup\{x\}$\\
\keyw{return} $E$\\

\end{tabbing}
```

Output:

```
for each  $x$  do
  if extension( $p, x$ )
    then  $E := E \cup \{x\}$ 
return  $E$ 
```

10. Mathematical Formulas

Inline: For in-line formulas use $\backslash(\dots \backslash)$ or $\$ \dots \$$. Avoid built-up constructions, for example fractions and matrices, in in-line formulas. Fractions in inline can be typed with a solidus, e.g. $x+y/z=0$.

Display: For numbered display formulas, use the displaymath environment:

```
\begin{equation}
...
\label{aba:eqno}
\end{equation}
```

And for unnumbered display formulas, use $\backslash[\dots \backslash]$. For numbered displayed, one-line formulas always use the equation environment. Do not use $\$\dots \$$.

For example, the input for:

$$\mu(n, t) = \frac{\sum_{i=1}^{\infty} 1(d_i < t, N(d_i) = n)}{\int_0^t 1(N(\sigma) = n) d\sigma}. \quad (1)$$

is:

```
\begin{equation}
\mu(n,t)=\frac{\sum\limits_{i=1}^{\infty} 1(d_i < t, N(d_i) = n)}{\int\limits_0^t 1(N(\sigma) = n) d\sigma}.\label{aba:eq1}
\end{equation}
```

For displayed multi-line formulas, use the `eqnarray` environment. For example,

```
\begin{eqnarray}
\zeta \mapsto \hat{\zeta} &=& a\zeta + b\eta \label{aba:eq2} \\
\eta \mapsto \hat{\eta} &=& c\zeta + d\eta \label{aba:eq3}
\end{eqnarray}
```

produces:

$$\zeta \mapsto \hat{\zeta} = a\zeta + b\eta \quad (2)$$

$$\eta \mapsto \hat{\eta} = c\zeta + d\eta \quad (3)$$

Superscripts and subscripts that are words or abbreviations, as in σ_{low} , should be typed as roman letters, with `\(\sigma_{\text{low}}\)` instead of σ_{low} done with `\(\sigma_{\text{low}}\)`.

For geometric functions, e.g. `exp`, `sin`, `cos`, `tan`, etc., please use the macros `\sin`, `\cos`, `\tan`. These macros give proper spacing in mathematical formulas.

It is also possible to use the *$\mathcal{AM-S}$ -L^AT_EX* package,² which can be obtained from the *$\mathcal{AM-S}$* and various T_EX archives.

11. Floats

11.1. Tables

Put tables and figures in text using the `table` and `figure` environments, and position them near the first reference of the table or figure in the text. Please avoid long captions in figures and tables.

Input:

```
\begin{table}
\tbl{Comparison of acoustic frequencies for piston-cylinder
problem.}
{\begin{tabular}{@{}cccc@{}}\toprule
Piston mass & Analytical frequency & TRIA6-$S_1$ model & ...\\
& (Rad/s) & (Rad/s) \\ \hline
1.0\hphantom{00}&281.0&280.81&0.07 \\
0.001 & 4130.0 & 4129.3\hphantom{0}& 0.16\\ \botrule
\end{tabular}}
\begin{tabnote}
$^a$\text{ Sample table footnote.} \\
\label{aba:tbl1}
\end{tabnote}
\end{table}
```

Output:

Table 1. Comparison of acoustic frequencies for piston-cylinder problem.

Piston mass	Analytical frequency (Rad/s)	TRIA6-\$S_1\$ model (Rad/s)	% Error ^a
1.0	281.0	280.81	0.07
0.1	876.0	875.74	0.03
0.01	2441.0	2441.0	0.0
0.001	4130.0	4129.3	0.16

Note: ^a Sample table footnote.

Very large figures and tables should be placed on a separate page by themselves. Landscape tables and figures can be typeset with the following environments:

- `sidewaystable` and
- `sidewaysfigure`.

Example:

```
\begin{sidewaystable}
\tbl{Positive values of ...}
{\begin{tabular}{@{}cccccccccc@{}}\toprule
\end{tabular}}
\toprule\\
```

Table 2. Positive values of X_0 by eliminating Q_0 from Eqs. (15) and (16) for different values of the parameters f_0 , λ_0 and α_0 in various dimension.

f_0	λ_0	α_0	Positive roots (X_0)							
			4D	5D	6D	7D	8D	10D	12D	16D
-0.033	0.034	0.1	6.75507,	4.32936,	3.15991,	2.44524,	1.92883,	0.669541,	—	—
-0.1	0.333	0.2	1.14476	1.16321	1.1879	1.22434	1.29065	0.415056	—	—
-0.301	0.302	0.001	3.15662,	1.72737,	—	—	—	—	—	—
-0.5	0.51	0.001	1.24003	1.48602	—	—	—	—	—	—
0.1	0.1	2	2.07773,	1.65625	—	—	—	—	—	—
0.1	0.1	10	0.806578	0.858211	1.1946	—	—	—	—	—
0.1	1	0.2	0.463679	0.465426	0.466489	0.466499	0.464947	0.45438	0.429651	0.35278
0.1	5	5	0.996033,	0.968869,	0.91379,	0.848544,	0.783787,	0.669541,	0.577489,	—
1	0.001	2	0.414324	0.41436	0.414412	0.414489	0.414605	0.415056	0.416214	—
0.001	0.2	0.316014,	0.309739,	—	—	—	—	—	—	—
0.1	5	0.089435	0.089441	0.089435	0.089409	0.08935	0.089061	0.088347	0.084352	—
1	3	0.128192	0.128966	0.19718,	0.169063,	0.142103,	0.1414412	0.1414489	—	—

```
$f_0$ &$\lambda_0$ &$\alpha_0$...
\end{tabular}}
\label{aba:tbl2}
\end{sidewaystable}
```

By using `\tbl` command in table environment, long captions will be justified to the table width while the short or single line captions are centered.
`\tbl{table caption}{tabular environment}`.

For most tables, the horizontal rules are obtained by:

- toprule** one rule at the top
- colrule** one rule separating column heads from data cells
- botrule** one bottom rule
- Hline** one thick rule at the top and bottom of the tables with multiple column heads

To avoid the rules sticking out at either end of the table, add `\{\}` before the first and after the last descriptors, e.g. `@llll@`. Please avoid vertical rules in tables. But if you think the vertical rule is a must, you can use the standard L^AT_EX `tabular` environment.

Headings which span for more than one column should be set using `\multicolumn{#1}{#2}{#3}` where `#1` is the number of columns to be spanned, `#2` is the argument for the alignment of the column head which may be either `c` — for center alignment; `l` — for left alignment; or `r` — for right alignment, as desired by the users. Use `c` for column heads as this is the WS style and `#3` is the heading.

For the footnotes in the table environment the command is
`{\begin{tabnote}<text>\end{tabnote}}`.

Tables should have a uniform style throughout the proceedings volume. It does not matter how you place the inner lines of the table, but we would prefer the border lines to be of the style as shown in our sample tables. For the inner lines of the table, it looks better if they are kept to a minimum.

11.2. *Figures*

The preferred graphics formats are TIF and Encapsulated PostScript (EPS) for any type of image. Our T_EX installation requires EPS, but we can easily convert TIF to EPS. Many other formats, e.g. PICT (Macintosh), WMF (Windows) and various proprietary formats, are not suitable. Even if we can read such files, there is no guarantee that they will look the same on our systems as on yours.

A figure is obtained with the following commands:

```
\begin{figure}
\includegraphics[width=4.5in]{procs-fig1}
\caption{The bifurcating response curves of system
$\alpha=0.5$, $\beta=1.8$; $\delta=0.2$, $\gamma=0$: (a)
$\mu=-1.3$; and (b) $\mu=0.3$.}
\label{aba:fig1}
\end{figure}
```

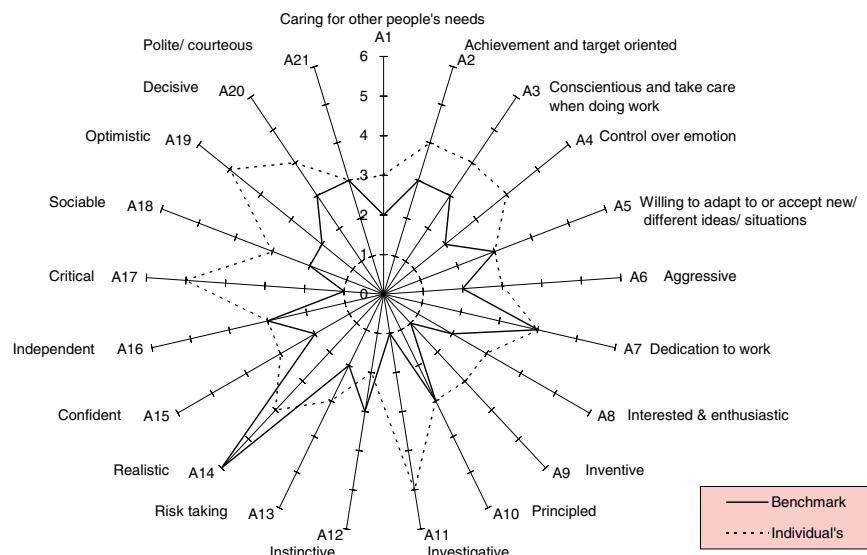


Fig. 1. The bifurcating response curves of system $\alpha = 0.5, \beta = 1.8; \delta = 0.2, \gamma = 0$: (a) $\mu = -1.3$; and (b) $\mu = 0.3$.

Adjust the scaling of the figure until it is correctly positioned, and remove the declarations of the lines and any anomalous spacing.

12. Cross-references

Use `\label` and `\ref` for cross-references to equations, figures, tables, sections, subsections, etc., instead of plain numbers. Every numbered part to which one wants to refer, should be labeled with the instruction `\label`. For example:

```
\begin{equation}
\mu(n, t)=\frac{\sum \limits_{i=1}^n (d_i < t, N(d_i)=n)}{\int \limits_t^{\infty} (\sigma=0) N(\sigma)d\sigma}.\label{aba:eq1}
\end{equation}
```

With the instruction `\ref` one can refer to a numbered part that has been labeled:

`..., see also Eq. (\ref{aba:eq1})`

The `\label` instruction should be typed

- immediately after (or one line below), but not inside the argument of a number-generating instruction such as `\section` or `\caption`, e.g.: `\caption{ ... caption ... }\label{aba:fig1}`.
- roughly in the position where the number appears, in environments such as an equation,
- labels should be unique, e.g., equation 1 can be labeled as `\label{aba:eq1}`, where ‘aba’ is author’s initial and ‘eq1’ the equation number.

Some useful shortcut commands.

Shortcut command	Equivalent TeX command	Output
In the middle of a sentence:		
<code>\eref{aba:eq1}</code>	Eq. (\ref{aba:eq1})	Eq. (1)
<code>\sref{aba:sec1}</code>	Sec. \ref{aba:sec1}	Sec. 1
<code>\fref{aba:fig1}</code>	Fig. \ref{aba:fig1}	Fig. 1
<code>\tref{aba:tbl1}</code>	Table \ref{aba:tbl1}	Table 1
At the starting of a sentence:		
<code>\Eref{aba:eq1}</code>	Equation (\ref{aba:eq1})	Equation (1)
<code>\Sref{aba:sec1}</code>	Section \ref{aba:sec1}	Section 1
<code>\Fref{aba:fig1}</code>	Figure \ref{aba:fig1}	Figure 1
<code>\Tref{aba:tbl1}</code>	Table \ref{aba:tbl1}	Table 1

13. Citations

We have used `\bibitem` to produce the bibliography. Citations in the text use the labels defined in the `\bibitem` declaration, e.g., the first paper by Jarlskog³ is cited using the command `\cite{jarl88}`. Bibitem labels should be unique.

For multiple citations, do not use `\cite{1}`, `\cite{2}`, but use `\cite{1,2}` instead.

When the reference forms part of the sentence, it should not be typed in superscripts, e.g.: “One can show from Ref. 3 that …”, “See Refs. 1 and 2 for more details.” This is done using the L^AT_EX command: “Ref.\citet{name}”.

14. Footnotes

Footnotes are denoted by a Roman letter superscript in the text. Footnotes can be used as

Input:

```
... total.\footnote{Sample footnote text.}
```

Output:

... in total.^a

15. Acknowledgments and Appendices

Acknowledgments to funding bodies etc. may be placed in a separate section at the end of the text, before the Appendices. This should not be numbered, so use \section*{Acknowledgments}.

It is preferable to have no appendices in a short article, but if it is necessary, then simply use as

```
\appendix{About the Appendix}
Appendices should be...
\begin{equation}
\mu(n, t) = \frac{\sum^{\infty}_{i=1} 1(d_i < t, N(d_i) = n)}{\int^t_{-\infty} 1(N(\sigma) = n) d\sigma}. \label{aba:app1}
\end{equation}
\subappendix{Appendix Sectional Units}
Sectional units are...
```

16. References

References are to be listed in the order cited in the text in Arabic numerals. BIBT_EX users, please use our bibliography style file ws-procs9x6.bst for references. Non BIBT_EX users can list down their references in the following pattern.

^aSample footnote text.

```
\begin{thebibliography}{99}
\bibitem{lam94} L.~Lamport, {\it \LaTeX, A Document Preparation System}, 2nd edn. (Addison-Wesley, Reading, 1994).

\bibitem{ams04} \AmS, {\it \AmS-\LaTeX{} Version 2 User's Guide} (American Mathematical Society, Providence, 2004), \url{http://www.ams.org/tex/amslatex.html}.

\bibitem{jarl88} C.~Jarliskog, {\it CP {V}iolation} (World Scientific, Singapore, 1988).

\bibitem{best03} B.~W. Bestbury, $R$-matrices and the magic square, {\it J. Phys. A} {\bf 36}, 1947 (2003).

\bibitem{jame02} J.~M. Landsberg and L.~Manivel, Triality, exceptional Lie algebras and Deligne dimension formulas, {\it Adv. Math.} {\bf 171}, 59 (2002), \url{http://www.url.com/triality.html}.

\end{thebibliography}
```

17. BIBTeXing

Sample output using `ws-procs9x6` bibliography style file:

BIBTeX Database entry type	Sample citation
article	... text. ^{4–6}
proceedings	... text. ⁷
inproceedings	... text. ⁸
book	... text. ^{3,9}
edition	... text. ¹⁰
editor	... text. ¹¹
series	... text. ¹²
tech report	See Refs. 13 and 14 for more details
unpublished	... text. ¹⁵
phd thesis	... text. ¹⁶
masters thesis	... text. ¹⁷
incollection	... text. ¹⁸
misc	... text. ¹⁹

If you use the BIBTeX program to maintain your bibliography, you do not use the `thebibliography` environment. Instead, you should include

```
\bibliographystyle{ws-procs9x6}
\bibliography{ws-pro-sample}
```

where `ws-procs9x6` refers to a file `ws-procs9x6.bst`, which defines how your references will look.

The argument to `\bibliography` refers to the file `ws-pro-sample.bib`, which should contain your database in BIBTEX format. Only the entries referred to via `\cite` will be listed in the bibliography.

Appendix A. About the Appendix

Appendices should be used only when absolutely necessary. They should come before the References.

Table A1. Macros available for tables/figures.

Environment name	Purpose
<code>figure</code>	Figures
<code>sidewaysfigure</code>	Landscape figures
<code>table</code>	Tables
<code>sidewaystable</code>	Landscape tables
Horizontal rules	Purpose
<code>\toprule</code>	One rule at the top
<code>\colrule</code>	One rule separating column heads from data cells
<code>\botrule</code>	One bottom rule
<code>\Hline</code>	One thick rule at the top and bottom of the tables with multiple column heads

Number displayed equations occurring in the Appendix in this way, e.g. (A.1), (A.2), etc.

$$ds^2 = dt^2 - a_i^2 \quad (\text{A.1})$$

Appendix A.1. Appendix Sectional Units

Where two or more appendices are used, number them alphabetically.

Sectional units are obtained with the LATEX commands:

- `\appendix`
- `\subappendix`.

Table A2. Macros available for use in text.

Macro name	Purpose
\title{#1}	Article title
\author{#1}	List of all authors
\address{#1}	Address of author
\begin{abstract}	Abstract
\end{abstract}	
\keywords{#1}	Keywords
\bodymatter	Start body text
\section{#1}	Section heading
\subsection{#1}	Subsection heading
\subsubsection{#1}	Subsubsection heading
\section*{#1}	Unnumbered Section head
\begin{itemlist}	Start bulleted lists
\end{itemlist}	End bulleted lists
\begin{arabiclist}	Start arabic lists (1, 2, 3...)
\end{arabiclist}	End arabic lists
\begin{romanlist}	Start roman lists (i, ii, iii...)
\end{romanlist}	End roman lists
\begin{Romanlist}	Start Roman lists (I, II, III...)
\end{Romanlist}	End Roman lists
\begin{alphlist}	Start alpha lists (a, b, c...)
\end{alphlist}	End alpha lists
\begin{Alphlist}	Start Alpha lists (A, B, C...)
\end{Alphlist}	End Alpha lists
\begin{proof}	Start of Proof
\end{proof}	End of Proof
\begin{theorem}	Start of Theorem
\end{theorem}	End of Theorem (See Page 5 for list of other Math environments)
\appendix{#1}	Appendix Section heading
\subappendix{#1}	Appendix Subsection heading
\begin{thebibliography}{#1}	Start of numbered reference list
\bibitem{#1}	Reference item in numbered style
\end{thebibliography}	End of numbered reference list
\bibliographystyle{#1}	To include BIBTEX style file
\bibliography{#1}	To include BIBTEX database
\blankpage	for blank page with no running heads

References

1. L. Lamport, *L^AT_EX, A Document Preparation System*, 2nd edn. (Addison-Wesley, Reading, MA, 1994).
2. *AMS-*L*^AT_EX Version 2 User's Guide* (American Mathematical Society, Providence, 2004), <http://www.ams.org/tex/amslatex.html>.

3. C. Jarlskog, *CP Violation* (World Scientific, Singapore, 1988).
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