

# Standard L<sup>A</sup>T<sub>E</sub>X Conference Proceedings

A. U. Thor  
The University of Stewart Island

## Abstract

Sample abstract text that has no relationship to the remainder of this document. We study the effects of warm water on the local penguin population. The major finding is that it is extremely difficult to induce penguins to drink warm water. The success factor is approximately  $-e^{-i\pi} - 1$ .

## 1 Standard L<sup>A</sup>T<sub>E</sub>X Conference Proceedings

This document illustrates the appearance of a proceedings article created with the shell **Standard LaTeX Conference Proceedings**. The text is typeset in two columns.

The standard L<sup>A</sup>T<sub>E</sub>X shells provide the most general and portable set of document features. You can achieve almost any typesetting effect by beginning with a standard shell and adding L<sup>A</sup>T<sub>E</sub>X packages as necessary.

The document class base file for this shell is `proc.cls`. This typesetting specification supports a number of class options. To see the available class options, choose Typeset, choose Options and Packages, select the Class Options tab, and then click the Modify button. This shell uses the default class options.

## 2 Using This Shell

The typesetting specification adds a command used to produce a blank space in the first column where a copyright notice goes. To use the command, add a T<sub>E</sub>X field containing the command `\copyrightspace{}` to the beginning of the first paragraph of body text in the document.

The front matter of this shell has a number of sample entries that you should replace with your own. Replace the body of this document with your own text. To start with a blank document, delete all of the text in this document.

Head	Head	Head
entry	entry	entry
entry	entry	entry
entry	entry	entry

Table 1: Table caption text here.

Changes to the typeset format of this shell and its associated L<sup>A</sup>T<sub>E</sub>X formatting file (`proc.cls`) are not supported by MacKichan Software, Inc. If you want to make such changes, please consult the L<sup>A</sup>T<sub>E</sub>X manuals or a local L<sup>A</sup>T<sub>E</sub>X expert.

If you modify this document and export it as "Standard LaTeX Conference Proceedings.shl" in the `Shells\Standard LaTeX` directory, it will become your new Standard LaTeX Conference Proceedings shell.

## 3 Headings and Tags

### 3.1 Subsection

Use the section tag for major sections, and the subsection tag for minor sections within a section.

#### 3.1.1 Subsubsection

This is just some harmless text under a subsubsection.

**Paragraph** This is just some harmless text under a paragraph heading. While using the name paragraph, it is a division heading one level lower than subsubsection.

**Subparagraph** This is just some harmless text under a subparagraph. The subparagraph is the lowest level division heading, and is typically not recommended to be used. Included below is Table 1 to demonstrate cross referencing a table. The table caption will appear in the list of tables, if used. L<sup>A</sup>T<sub>E</sub>X will position this floating table to best take advantage of the flow of the surrounding text.

## 3.2 Tags

You can apply the logical markup tag `Emphasized`.

You can apply the visual markup tags **Bold**, *Italics*, **Roman**, **Sans Serif**, *Slanted*, **Small Caps**, and **Typewriter**.

You can apply the special mathematics-only tags **BLACKBOARD BOLD**, ***CALLIGRAPHIC***, and *fraktur*. Note that blackboard bold and calligraphic are correct only when applied to uppercase letters A through Z.

You can apply the size tags `tiny`, `scriptsize`, `footnotesize`, `small`, `normalsize`, `large`, `Large`, **LARGE**, `huge` and **Huge**.

This is a Body Math paragraph. Each time you press the Enter key, Scientific WorkPlace switches to mathematics mode. This is convenient for carrying out "scratchpad" computations.

Following is a group of paragraphs marked as Short Quote. This environment is appropriate for a short quotation or a sequence of short quotations.

The only thing we have to fear is fear itself.  
Franklin D. Roosevelt, Mar. 4, 1933

Ask not what your country can do for you; ask  
what you can do for your country. John F.  
Kennedy, Jan. 20, 1961

There is nothing wrong with America that cannot  
be cured by what is right with America. William  
J. "Bill" Clinton, Jan. 21, 1993

The Long Quotation tag is used for quotations of more than one paragraph. Following is the beginning of Alice's Adventures in Wonderland by Lewis Carroll:

Alice was beginning to get very tired of sitting  
by her sister on the bank, and of having nothing  
to do: once or twice she had peeped into the book  
her sister was reading, but it had no pictures or  
conversations in it, 'and what is the use of a book,'  
thought Alice 'without pictures or conversation?'

So she was considering in her own mind (as well  
as she could, for the hot day made her feel very  
sleepy and stupid), whether the pleasure of making  
a daisy-chain would be worth the trouble of  
getting up and picking the daisies, when suddenly  
a White Rabbit with pink eyes ran close by her.

There was nothing so very remarkable in that;  
nor did Alice think it so very much out of the way  
to hear the Rabbit say to itself, 'Oh dear! Oh  
dear! I shall be late!' (when she thought it over  
afterwards, it occurred to her that she ought  
to have wondered at this, but at the time it all  
seemed quite natural); but when the Rabbit actually  
took a watch out of its waistcoat-pocket, and

looked at it, and then hurried on, Alice started  
to her feet, for it flashed across her mind that  
she had never before seen a rabbit with either a  
waistcoat-pocket, or a watch to take out of it, and  
burning with curiosity, she ran across the field  
after it, and fortunately was just in time to see  
it pop down a large rabbit-hole under the hedge.

In another moment down went Alice after it,  
never once considering how in the world she was  
to get out again.

## 4 Mathematics and Text

Let  $H$  be a Hilbert space,  $C$  be a closed bounded convex subset of  $H$ ,  $T$  a nonexpansive self map of  $C$ . Suppose that as  $n \rightarrow \infty$ ,  $a_{n,k} \rightarrow 0$  for each  $k$ , and  $\gamma_n = \sum_{k=0}^{\infty} (a_{n,k+1} - a_{n,k})^+ \rightarrow 0$ . Then for each  $x$  in  $C$ ,  $A_n x = \sum_{k=0}^{\infty} a_{n,k} T^k x$  converges weakly to a fixed point of  $T$ .

The numbered equation

$$u_{tt} - \Delta u + u^5 + u|u|^{p-2} = 0 \text{ in } \mathbf{R}^3 \times [0, \infty[ \quad (1)$$

is automatically numbered as equation 1.

## 5 List Environments

You can create numbered, bulleted, and description lists using the Item Tag popup list on the Tag toolbar.

1. List item 1
2. List item 2
  - (a) A list item under a list item.

The typeset style for this level is different than the screen style. The screen shows a lower case alphabetic character followed by a period while the typeset style uses a lower case alphabetic character surrounded by parentheses.
  - (b) Just another list item under a list item.
    - i. Third level list item under a list item.
      - A. Fourth and final level of list items allowed.
- Bullet item 1
- Bullet item 2
  - Second level bullet item.
    - \* Third level bullet item.
      - Fourth (and final) level bullet item.

**Description List** Each description list item has a term followed by the description of that term. Double click the term box to enter the term, or to change it.

**Bunyip** Mythical beast of Australian Aboriginal legends.

## 6 Theorem-like Environments

The following theorem-like environments (in alphabetical order) are available with this shell document. The numbering scheme for theorem-like environments is controlled by `\newtheorem` statements in the document preamble.

**Acknowledgement 1** This is an acknowledgement

**Algorithm 2** This is an algorithm

**Axiom 3** This is an axiom

**Case 4** This is a case

**Claim 5** This is a claim

**Conclusion 6** This is a conclusion

**Condition 7** This is a condition

**Conjecture 8** This is a conjecture

**Corollary 9** This is a corollary

**Criterion 10** This is a criterion

**Definition 11** This is a definition

**Example 12** This is an example

**Exercise 13** This is an exercise

**Lemma 14** This is a lemma

**Proof.** This is the proof of the lemma. ■

**Notation 15** This is notation

**Problem 16** This is a problem

**Proposition 17** This is a proposition

**Remark 18** This is a remark

**Summary 19** This is a summary

**Theorem 20** This is a theorem

**Proof of the Main Theorem.** This is the proof. ■

## A The First Appendix

The appendix fragment is used only once. Subsequent appendices can be created using the Chapter Section/Body Tag.

Following is a short bibliography. It has no relationship to the previous text, but can be used to show sample citations such as [4] and [6]. This typesetting style places each citation inside square brackets. If you want multiple citations to appear in a single set of square brackets you must type all of the citation keys inside a single citation, separating each with a comma. Here is an example: [2, 3, 4].

## References

- [1] American Petroleum Institute, Technical Data Book - Petroleum Refining, 5th edition, 1992
- [2] Harstad, K. and Bellan, J., "Isolated fluid oxygen drop behavior in fluid hydrogen at rocket chamber pressures", Int. J. Heat Mass Transfer, 1998a, **41**, 3537-3550
- [3] Harstad, K. and Bellan, J., "The Lewis number under supercritical conditions", Int. J. Heat Mass Transfer, in print
- [4] Hirshfelder, J. O., Curtis, C. F. and Bird, R. B., Molecular Theory of Gases and Liquids, John Wiley and Sons, Inc., 1964
- [5] Prausnitz, J., Lichtenthaler, R. and de Azevedo, E., Molecular thermodynamics for fluid-phase equilibrium, Prentice -Hall, Inc., 1986
- [6] Reid, R. C., Prausnitz, J. M. and Polling, B. E., The Properties of Gases and Liquids, 4th Edition, McGraw-Hill Book Company, 1987