Laboratory Report

Physics 456
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Tuesday, July 1, 2003

Heading 2

This is the Lab Report - with Instructions shell document. This shell uses the style file `Lab Report.cst`. Replace this text with your own.

If you modify this document and export it as "Lab Report - with Instructions.shl" in the `Shells\General` directory, it will become your new Lab Report - with Instructions shell.

The page layout has 1.00-in. margins on all sides. The header of each page is empty and the footer of each page contains a rule with "**Lab Report**" aligned to the left side of the page and the page number aligned to the right side of the page. Use ***File, Page Setup*** to change the page layout.

Heading 3

To create a heading, type the text of the heading as a separate paragraph, and then with the insertion point in the paragraph, choose from Heading 1 through Heading 5 from the Section/Body Tag popup list on the Tag toolbar.

Heading 4

> To center a paragraph, place the insertion point within the paragraph and choose
> Centered from the Section/Body Tag popup list on the Tag toolbar.
> To set text off like this, type the text, then choose Long Quotation from the
> Section/Body Tag popup list on the Tag toolbar.

```
This is preformatted text
     Spaces and line breaks       are      maintained     within      preformatted text
Use this to enter fragments of programs
```

Heading 5

You can apply the logical markup tag *Emphasized,* or ***Strongly Emphasized***.

You can apply the visual markup tags **Bold**, *Italics*, Keyboard Input, **Sample Text**, and `Typed code.`

You can apply the size tags Smallest, Small, Big, Bigger, and Biggest.

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 $n \to \infty$, $a_{n,k} \to 0$ for each k, and $\gamma_n = \sum_{k=0}^{\infty}(a_{n,k+1} - a_{n,k})^+ \to 0$. 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.

In-line and Displayed Mathematics

The numbered equation

$$u_{tt} - \Delta u + u^5 + u|u|^{p-2} = 0 \text{ in } \mathbf{R}^3 \times [0,\infty[\qquad\qquad 2.1$$

Numbered equations must be managed manually.

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.

      This second paragraph under the same list item was created by typing Backspace at the very beginning of the paragraph. 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.

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