

# First document

PIN-CHUN, HSU

April 2017

First document. This is a simple example, with no extra parameters or packages included. try

```
\begin{figure}[h]
  \centering
  \includegraphics[width=0.25\textwidth]{me}
  \caption{a nice plot}
  \label{fig:meshi}
\end{figure}
```

test Some of **Bold texts** and some Underline texts and more *Text it* already in bold font but still can *Emphasize* something

```
\begin{figure}[h]
  \centering
  \includegraphics[width=0.25\textwidth]{me}
  \caption{a nice plot}
  \label{fig:meshi}
\end{figure}
```

Figure 1: a nice plot

As you can see in the figure 1, the function grows near 0. Also, in the page 1 is the same example.

- The individual entries are indicated with a black dot, a so-called bullet.
- The text in the entries may be of any length.

1. This is the first entry in our list
2. The list numbers increase with each entry we add

In physics, the mass-energy equivalence is stated by the equation  $E = mc^2$ , discovered in 1905 by Albert Einstein. math like  $\frac{2\pi R}{\mu_0 i}$   
The mass-energy equivalence is described by the famous equation

$$E = mc^2$$

discovered in 1905 by Albert Einstein. In natural units ( $c = 1124$ ), the formula expresses the identity

$$E = m \tag{1}$$

Subscripts in math mode are written as  $a_b$  and superscripts are written as  $a^b$ . These can be combined an nested to write expressions such as

$$T^{i_1 i_2 \dots i_p}_{j_1 j_2 \dots j_q} = T(x^{i_1}, \dots, x^{i_p}, e_{j_1}, \dots, e_{j_q})$$

We write integrals using  $\int$  and fractions using  $\frac{a}{b}$ . Limits are placed on integrals using superscripts and subscripts:

$$\int_0^1 \frac{1}{e^x} = \frac{e-1}{e}$$

Lower case Greek letters are written as  $\omega$   $\delta$  etc. while upper case Greek letters are written as  $\Omega$   $\Delta$ .

Mathematical operators are prefixed with a backslash as  $\sin(\beta)$ ,  $\cos(\alpha)$ ,  $\log(x)$  etc.

cell1	cell2	cell3
cell4	cell5	cell6
cell7	cell8	cell9

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cell1	cell2	cell3
cell4	cell5	cell6
cell7	cell8	cell9

Table 1 is an example of referenced L<sup>A</sup>T<sub>E</sub>X elements.

Col1	Col2	Col2	Col3
1	6	87837	787
2	7	78	5415
3	545	778	7507
4	545	18744	7560
5	88	788	6344

Table 1: Table to test captions and labels

# 1 Introduction

This is the first section.

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Etiam lobortis facilisis sem. Nullam nec mi et neque pharetra sollicitudin. Praesent imperdiet mi nec ante. Donec ullamcorper, felis non sodales...

## 2 Second Section

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Etiam lobortis facilisis sem. Nullam nec mi et neque pharetra sollicitudin. Praesent imperdiet mi nec ante...

### 2.1 First Subsection

Praesent imperdiet mi nec ante. Donec ullamcorper, felis non sodales...

## Unnumbered Section

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Etiam lobortis facilisis sem

$$\lim_{n \rightarrow \infty} \left(1 + \frac{1}{n}\right)^n$$

$$\int_{-\infty}^{\infty} \frac{1}{e^x}$$

Text before ...

```
for (int i=0; i<iterations;i++)  
{  
    do something  
}
```

Text after it ...