First Document

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First document. This is a simple example, with no extra parameters or packages included. We have now added a title, author and date to our first LaTeX document!

Some of the **greatest** discoveries in science were made by ***accident***.

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The universe is immense and it seems to be homogeneous, in a large scale, everywhere we look at.

There's a picture of a galaxy above.

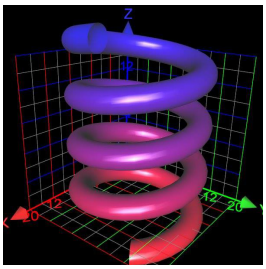

Figure 1: 3D Circular Pipe

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

Some unordered lists

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

Some ordered lists

1. This is the first entry of the list
2. The list number increases
3. As each entry is added

In physics, the mass-energy equivalence is stated by the equation $E = mc^2$ discovered in 1905 by Albert Einstein. In natural units ($c = 1$) the formula expresses the identity

$$E = m$$

In mathematics the most beautiful equation is stated as

$$e^{i\pi} + 1 = 0 \tag{1}$$

Subscripts in mathematics are written as a_b and superscripts are written as a^b. These can be combined and nested to write equations such as:

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

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

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

Lower case Greek letters are written as ω δ etc. while upper case Greek letters are written as Ω Δ.

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