

*Hello* world.

Plus, minus, and equal signs (should be properly aligned):

$$\alpha^2 + \beta^2 = \gamma^2$$

$$\alpha^2 - \beta^2 = \gamma^2$$

Inline equations:  $\exp(x) = \sum_{i=0}^{\infty} x^i/i!$ ,  $\Gamma(z) = \int_0^{\infty} t^{z-1}e^{-t} dt$ .

Displayed equations:

$$(1) \quad \exp(x) = \sum_{i=0}^{\infty} \frac{x^i}{i!}, \quad \Gamma(z) = \int_0^{\infty} t^{z-1}e^{-t} dt.$$

Large parentheses:  $\begin{pmatrix} a_{11} & a_{12} & a_{13} \\ a_{21} & a_{22} & a_{23} \end{pmatrix} \begin{pmatrix} b_1 \\ b_2 \\ b_3 \end{pmatrix} = \begin{pmatrix} c_1 \\ c_2 \end{pmatrix}$

By default, capital greek letters are found in the upright font first, ΑΒΓΔΕΖΗΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩαβγδεζηθικλμνξοπρστυφχψω, use the keyword “*italic*” to specifically select one from the italic font:

$$(2) \quad R_{\alpha\beta} - \frac{1}{2} g_{\alpha\beta} R + \Lambda g_{\alpha\beta} = \frac{8\pi\kappa}{c^2} T_{\alpha\beta}$$