

# Matplotlib's math rendering engine

$$W_{\delta_1\rho_1\sigma_2}^{3\beta} = U_{\delta_1\rho_1}^{3\beta} + \frac{1}{8\pi^2} \int_{\alpha_2}^{\alpha_2'} d\alpha_2' \left[ \frac{U_{\delta_1\rho_1}^{2\beta} - \alpha_2' U_{\rho_1\sigma_2}^{1\beta}}{U_{\rho_1\sigma_2}^{0\beta}} \right]$$

## Subscripts and superscripts:

$$\alpha_i > \beta_i, \alpha_{i+1}^j = \sin(2\pi f_j t_i) e^{-5t_i/\tau}, \dots$$

## Fractions, binomials and stacked numbers:

$$\frac{3}{4}, \binom{3}{4}, \frac{3}{4}, \left(\frac{5-\frac{1}{x}}{4}\right), \dots$$

## Radicals:

$$\sqrt{2}, \sqrt[3]{x}, \dots$$

## Fonts:

Roman , *Italic* , Typewriter or *CALLIGRAPHY*

## Accents:

$$\acute{a}, \bar{a}, \check{a}, \grave{a}, \ddot{a}, \grave{\hat{a}}, \tilde{a}, \vec{a}, \widehat{xyz}, \widetilde{xyz}, \dots$$

## Greek, Hebrew:

$$\alpha, \beta, \chi, \delta, \lambda, \mu, \Delta, \Gamma, \Omega, \Phi, \Pi, \Upsilon, \nabla, \aleph, \beth, \gamma, \daleth,$$

## Delimiters, functions and Symbols:

$$\sqcup, \int, \oint, \prod, \sum, \log, \sin, \approx, \oplus, \star, \propto, \infty, \partial, \Re,$$