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:

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

Fractions, binomials and stacked numbers:

$$\frac{3}{4},\ \binom{3}{4},\ \genfrac{}{}{0pt}{}{3}{4},\ \left(\frac{5-\frac{1}{x}}{4}\right),\ \ldots$$

Radicals:

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

Fonts:

Roman , Italic , $\mathtt{Typewriter}$ or $\mathcal{CALLIGRAPHY}$

Accents:

$$\acute{a},\ \bar{a},\ \breve{a},\ \dot{a},\ \ddot{a},\ \grave{a},\ \hat{a},\ \tilde{a},\ \vec{a},\ \widehat{xyz},\ \widetilde{xyz},\ \ldots$$

Greek, Hebrew:

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

Delimiters, functions and Symbols:

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