Matplotlib's math rendering engine

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

Subscripts and superscripts:

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

Fractions, binomials and stacked numbers:

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

Radicals:

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

Fonts:

Roman , *Italic* , `Typewriter` or $\mathcal{CALLIGRAPHY}$

Accents:

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

Greek, Hebrew:

α, β, χ, δ, λ, μ, Δ, Γ, Ω, Φ, Π, Υ, ∇, $\aleph$, $\beth$, $\daleth$, $\gimel$, ...

Delimiters, functions and Symbols:

$\amalg$, $\int$, $\oint$ $\prod$, $\sum$, $\log$, $\sin$, $\approx$, $\oplus$, $\star$, $\propto$, ∞, ∂, $\Re$, $\leftrightsquigarrow$, ...