Matplotlib's math rendering engine

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$$u_{s}^{\alpha_{2}}$$
 . $u_{s}^{2\beta}$ $u_{s}^{\alpha_{2}}$

$W_{\delta_1 ho_1\sigma_2}^{3eta} = \! U_{\delta_1 ho_1}^{3eta} + \! rac{1}{8\pi 2} \! \int^{lpha_2} dlpha_2' \left[\! rac{U_{\delta_1 ho_1}^{2eta} - lpha_2' U_{ ho_1\sigma_2}^{1eta}}{U_{lpha_2\sigma}^{0eta}} ight]$

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

Fractions, binomials and stacked numbers: $\frac{3}{4}$, $\binom{3}{4}$, $\frac{3}{4}$, $\left(\frac{5-\frac{1}{x}}{4}\right)$, ...

Radicals:

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

Fonts:

Accents:

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

$(\dot{a}, \bar{a}, \ddot{a}, \dot{a}, \ddot{a}, \ddot{a}, \dot{a}, \hat{a}, \tilde{a}, \tilde{a}, \widetilde{xyz}, \widetilde{xyz}, \dots)$

Greek, Hebrew:

Delimiters, functions and Symbols:

 $\prod, \sum, \log, \sin, \approx, \oplus, \star, \infty, \infty, \partial, \Re, \leadsto, \dots$

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