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Greek Letters η and μ

Fraction $\frac{a}{b}$

Power a^b

Subscript a_b

Derivate $\frac{\partial y}{\partial t}$

Vector $\vec{n}$

Bold $\mathbf{n}$

$\Delta E_{\text{fine structure}} = \frac{(Z\alpha)^2}{n} \left(\frac{1}{j+\frac{1}{2}} - \frac{3}{4n} \right) E_n$.

To time differential $\dot{F}$

Matrix (lcr here means left, center or right for each column)

$$\begin{bmatrix} a1 & b22 & c333 \\ d444 & e555555 & f6 \end{bmatrix}$$

Equations(here & is the symbol for aligning different rows)

$$a + b = c \tag{1}$$
$$d = e + f + g \tag{2}$$

$$\begin{cases} a + b = c \\ d = e + f + g \end{cases}$$

$$i\hbar \frac{\partial}{\partial t} \left(\blacksquare \, |\alpha, t_0; t\rangle_S \right) = (H_0 + V) \, |\alpha, t_0; t\rangle_S$$

References

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