Title

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Abstract

Text for the abstract

1 lists

a. item one

b. item two

c. item tree

- item one
- item two
- item tree

purpose item one

example item two

item tree

2 quotes

> Its a good idea to make your input file as easy to read as possible.
>
> Its a good idea to make your input file as easy to read as possible.
>
> There is an environment for verse Whose features some poets will curse For instead of making Them do *all* line breaking, It allows them to put many words on a line when theyd rather be forced to be terse.

3 boxes

some words

some words

Text in a box Text in a box

baseline$^{\text{upward}}$baseline$_{\text{downward}}$ baseline

4 equation

fraction

$$\frac{\mathrm{d}\varepsilon}{\mathrm{d}\varepsilon} \qquad \frac{\frac{a}{x-y}+\frac{b}{x+y}}{1+\frac{a-b}{a+b}}$$

equation with numbers

$$\varphi(x,y) = z - \gamma_{10}x - \sum_{m+n\geq 2} \gamma mn x^2 z^n \tag{1}$$

equation without numbers

$$\left(\int_{-\infty}^{\infty} e^{-x^2}\right) = \int_{-\infty}^{\infty}\int_{-\infty}^{\infty} e^{-(x^2+y^2)}dx\,dy$$

..

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$$\langle\Psi_1|\Psi_2\rangle \equiv \int \Psi_1^*(\mathbf{r})\Psi_2(\mathbf{r})\mathrm{d}\mathbf{r} \tag{2a}$$

and

$$\langle\Psi_1|\Psi_2\rangle \equiv \Psi_1^*(\mathbf{r}_1,\ldots,\mathbf{r}_N)\Psi_2(\mathbf{r}_1,\ldots,\mathbf{r}_N\mathrm{d}\mathbf{r}_1\ldots\mathrm{d}\mathbf{r}_N. \tag{2b}$$

framed displayed equation

$$\boxed{\int_0^\infty f(x)\,\mathrm{d}x \approx \sum_{i=1}^{n} w_i \mathrm{e}^{x_i} f(x_i)} \tag{3}$$

multiline equations - eqnarray

$$\begin{aligned}\bar{\varepsilon} &= \frac{\int_0^\infty \varepsilon \exp(-\beta\varepsilon)\,\mathrm{d}\varepsilon}{\int_0^\infty \exp(-\beta\varepsilon)\,\mathrm{d}\varepsilon} \\ &= -\frac{\mathrm{d}}{\mathrm{d}\beta}\log\left[\int_0^\infty \exp(-\beta\varepsilon)\,\mathrm{d}\varepsilon\right] = \frac{1}{\beta} = kT (4)\end{aligned}$$

matrix

$$\begin{matrix} a & b & c \\ d & e & f \\ g & h & i \end{matrix}$$

dual matrix

$$\begin{matrix} -1 & 3 \\ 2 & -4 \end{matrix} = \begin{matrix} [r]-1 & 3 \\ 2 & -4 \end{matrix}$$

$$\begin{cases} A\mathrm{e}^{\mathrm{i}kx} + B\mathrm{e}^{-\mathrm{i}kx}, & \text{for x=0} \\ D\mathrm{e}^{-}\kappa x, & \text{for x=0.} \end{cases}$$

References

[1] This is sample bibitem one.

[2] This is sample bibitem two.

[3] This is sample bibitem three.