

Custom macros

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Expectation value

$\$ \backslash \text{expval}\{a\} \$ \rightarrow \langle a \rangle$

$\$ \$ \backslash \text{expval}\{\text{diff}\{f\}\{t\}\} \$ \$$

$$\rightarrow \left\langle \frac{df}{dt} \right\rangle$$

Commutation

Commutator

$\$ \backslash \text{comm}\{\text{op}\{x\}\}\{\text{op}\{p\}\} = i \backslash \text{hbar} \$ \rightarrow [\hat{x}, \hat{p}] = i \hbar$

Anticommutator

$\$ \$ \backslash \text{acomm}\{\text{op}\{c\}\{i\}\}\{\text{hc}\{c\}\{j\}\} = \backslash \text{delta_}\{\backslash \alpha, \backslash \beta\} \$ \$$

$$\rightarrow \left\{ \hat{c}_i, \hat{c}_j^\dagger \right\} = \delta_{\alpha, \beta}$$