▷ Size-adaptive math

`\bb{..}`	(x)	parantheses
`\bc{..}`	$[x]$	brackets
`\absv{..}`	$\lvert x\rvert$	absolute value
`\absvsq{..}`	$\lvert x\rvert^2$	absolute value squared
`\comm{..}{..}`	$[x, y]$	commutator
`\meanv{..}`	$\langle x\rangle$	mean value

▷ Braket notation

`\bra{..}`	$\langle x\rvert$	bra
`\ket{..}`	$\lvert x\rangle$	ket
`\braket{..}{..}`	$\langle x\rvert y\rangle$	scalar product
`\ketbra{..}{..}`	$\lvert x\rangle\langle y\rvert$	ket-bra operator
`\braketop{..}{..}{..}`	$\langle x\rvert y\rvert z\rangle$	matrix element
`\smallbraketop{..}{..}{..}`	$\langle x\rvert y\rvert z\rangle$	small matrix element

▷ Special functions

`\deltaf{..}`	$\delta(x)$	delta function
`\thetaf{..}`	$\theta(x)$	theta function
`\expf{..}`	$\exp(x)$	exponential function
`\ef{..}`	e^x	exponential function
`\Re{..}`	$\mathrm{Re}(x)$	real part
`\Im{..}`	$\mathrm{Im}(x)$	imaginary part

▷ Named states

`\ketPsi`	$\lvert\Psi\rangle$
`\ketpsi`	$\lvert\psi\rangle$
`\ketphi`	$\lvert\varphi\rangle$

\ketup	$\|\uparrow\rangle$	spin up
\ketdo	$\|\downarrow\rangle$	spin down
\ketzero	$\|0\rangle$	
\ketone	$\|1\rangle$	
\ketg	$\|g\rangle$	ground state
\kete	$\|e\rangle$	excited state
\vac	$\|\text{vac}\rangle$	vacuum

▷ Vectors

\vecr	$\mathbf{r}$
\vecrone	$\mathbf{r_1}$
\vecrtwo	$\mathbf{r_2}$
\vecrn	$\mathbf{r_N}$
\vecri	$\mathbf{r_i}$
\vecrj	$\mathbf{r_j}$
\vecx	$\mathbf{x}$
\vecy	$\mathbf{y}$
\vecz	$\mathbf{z}$
\vecxi	$\mathbf{x_i}$
\vecxj	$\mathbf{x_j}$
\veck	$\mathbf{k}$
\vecq	$\mathbf{q}$
\vecp	$\mathbf{p}$

▷ Differentiation

\partiald{..}	$\frac{\partial}{\partial x}$	partial differentiation
\laplace	∇^2	laplace operator

▷ Integration

`\integral{..}`	$\int \mathrm{d}x$	integral
`\integralb{..}{..}{..}`	$\int_y^x \mathrm{d}z$	integral with boundaries
`\integralf{..}{..}`	$\int \frac{\mathrm{d}x}{y}$	integral with fraction
`\intvol`	$\int \mathrm{d}^3 r$	integral over r space
`\intvolp`	$\int \mathrm{d}^3 r'$	integral over r' space
`\intvold`	$\int \mathrm{d}^3 r \int \mathrm{d}^3 r'$	double integral over space
`\intk`	$\int \mathrm{d}^3 k$	integral over k space
`\intkp`	$\int \mathrm{d}^3 k'$	integral over k' space
`\intkn`	$\int \frac{\mathrm{d}^3 k}{(2\pi)^3}$	normalized integral over k space
`\intkpn`	$\int \frac{\mathrm{d}^3 k'}{(2\pi)^3}$	normalized integral over k' space

▷ Special symbols

`\hc`	h.c.	hermitian conjugate
`\hamil`	$\hat{\mathrm{H}}$	Hamilton operator
`\hastobe`	$\stackrel{!}{=}$	has to be
`\eqhat`	$\mathrel{\widehat{=}}$	corresponds to, is equivalent
`\id`	$\mathbb{1}$	identity matrix

▷ Second quantization

`\aop`	a	annihilation operator
`\aopd`	$a^\dagger$	creation operator
`\bop`	b	annihilation operator
`\bopd`	$b^\dagger$	creation operator
`\cop`	c	annihilation operator
`\copd`	$c^\dagger$	creation operator
`\nop`	n	number operator
`\psiop`	$\hat{\psi}$	field operator

\psiopd	$\hat{\psi}^\dagger$
\PsiOp	$\hat{\Psi}$
\PsiOpd	$\hat{\Psi}^\dagger$

▷ Differences

\Dx	Δx
\Dy	Δy
\Dt	Δt

▷ Figures

```
\igopt{..}{..}
\ig{..}{..}
\figopt(4 arguments)
\fig{..}{..}{..}
\doublefigopt(8 arguments)
\doublefig(7 arguments)
\figref{..}
```