▷ 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{..}{..}`	$\langle x\vert y\rangle$	scalar product
`\ketbra{..}{..}`	$\lvert x\rangle\langle y\rvert$	ket-bra operator
`\braketop{..}{..}{..}`	$\langle x\vert y\vert z\rangle$	matrix element
`\smallbraketop{..}{..}{..}`	$\langle x\vert y\vert z\rangle$	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
`\Ref{..}`	$\mathrm{Re}(x)$	real part, function form
`\Imf{..}`	$\mathrm{Im}(x)$	imaginary part, function form
`\Re`	Re	real part
`\Im`	Im	imaginary part

▷ Named states

`\ketPsi`	$\lvert\Psi\rangle$	

`\ketpsi`	$\|\psi\rangle$	
`\ketphi`	$\|\varphi\rangle$	
`\ketup`	$\|\uparrow\rangle$	spin up
`\ketdn`	$\|\downarrow\rangle$	spin down
`\ketzero`	$\|0\rangle$	
`\ketone`	$\|1\rangle$	
`\ketg`	$\|g\rangle$	ground state
`\kete`	$\|e\rangle$	excited state
`\vac`	$\|\mathrm{vac}\rangle$	vacuum

▷ Pauli matrices

`\sx`	σ^x
`\sy`	σ^y
`\sz`	σ^z
`\splus`	σ^+
`\sminus`	σ^-

▷ Vectors

`\vecr`	$\mathbf{r}$
`\vecrone`	$\mathbf{r_1}$
`\vecrtwo`	$\mathbf{r_2}$
`\vecrn`	$\mathbf{r_N}$
`\vecri`	$\mathbf{r_i}$
`\vecrj`	$\mathbf{r_j}$
`\vecR`	$\mathbf{R}$
`\vecx`	$\mathbf{x}$
`\vecy`	$\mathbf{y}$
`\vecz`	$\mathbf{z}$

`\vecxi`	$\mathbf{x_i}$	
`\vecxj`	$\mathbf{x_j}$	
`\veck`	$\mathbf{k}$	
`\vecq`	$\mathbf{q}$	
`\vecp`	$\mathbf{p}$	
`\vecd`	$\mathbf{d}$	
`\vecmu`	$\boldsymbol{\mu}$	
`\vecsigma`	$\boldsymbol{\sigma}$	

▷ Differentiation

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

▷ Integration

`\integral{..}`	$\int \mathrm{d}x$	integral
`\integralb{..}{..}{..}`	$\int_x^y \mathrm{d}z$	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`	$\overset{!}{=}$	has to be
`\eqhat`	$\widehat{=}$	corresponds to, is equivalent
`\id`	$\mathbb{1}$	identity matrix
`\const`	const.	hermitian conjugate

▷ 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

▷ Trigonometry

`\asin`	asin
`\acos`	acos
`\atan`	atan

▷ Figures

`\igopt(2 arguments)`	options, filename
`\ig(2 arguments)`	width in units of textwidth, filename
`\figopt(4 arguments)`	width, filename, caption, placement (h, t, ht)
`\fig(3 arguments)`	width, filename, caption
`\doublefigopt(8 arguments)`	w1, f1, c1, w2, f2, c2, main caption, placement
`\doublefig(7 arguments)`	w1, f1, c1, w2, f2, c2, main caption