▷ Size-adaptive math: \leftX ... \rightX

`\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

▷ Fixed-size math (for quickly changing from adaptive style)

`\Bb{..}`	$\left(x\right)$	big parantheses
`\BB{..}`	$\left(x\right)$	Big parantheses
`\Bc{..}`	$\left[x\right]$	big brackets
`\BC{..}`	$\left[x\right]$	Big brackets
`\Absv{..}`	$\left\lvert x\right\rvert$	big absolute value
`\ABSV{..}`	$\left\lvert x\right\rvert$	Big absolute value
`\Absvsq{..}`	$\left\lvert x\right\rvert^2$	big absolute value squared
`\ABSVSQ{..}`	$\left\lvert x\right\rvert^2$	Big absolute value squared
`\Comm{..}{..}`	$\left[x,y\right]$	big commutator
`\COMM{..}{..}`	$\left[x,y\right]$	Big commutator
`\Meanv{..}`	$\left\langle x\right\rangle$	big mean value
`\MEANV{..}`	$\left\langle x\right\rangle$	Big 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{..}{..}{..}`	$\langle x\|y\|z\rangle$	matrix element
`\smallbraketop{..}{..}{..}`	$\langle x\|y\|z\rangle$	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`	$\|\Psi\rangle$	
`\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{..}{..}{..}`	$\int_y^x \mathrm{d}z$	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
`\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