`latex-math` Macros

compiled: 2021-10-17

Latex macros like `\frac{#1}{#2}` with arguments are displayed as $\frac{\#1}{\#2}$.

Contents

basic-math

Macro	Notation	Comment
\N	$\mathbb{N}$	N, naturals
\Z	$\mathbb{Z}$	Z, integers
\Q	$\mathbb{Q}$	Q, rationals
\R	$\mathbb{R}$	R, reals
\C	$\mathbb{C}$	C, complex
\continuous	$\mathcal{C}$	C, space of continuous functions
\M	$\mathcal{M}$	machine numbers
\epsm	ϵ_m	maximum error
\xt	$\tilde{x}$	x tilde
\sign	sign	sign, signum
\I	$\mathbb{I}$	I, indicator
\Ind	$\mathbb{1}$	1, indicator
\order	$\mathcal{O}$	O, order
\fp	$\frac{\partial \#1}{\partial \#2}$	partial derivative
\pd	$\frac{\partial \#1}{\partial \#2}$	partial derivative
\sumin	$\sum_{i=1}^{n}$	summation from i=1 to n
\sumjp	$\sum_{j=1}^{p}$	summation from j=1 to p
\sumik	$\sum_{i=1}^{k}$	summation from i=1 to k
\sumkg	$\sum_{k=1}^{g}$	summation from k=1 to g
\sumjg	$\sum_{j=1}^{g}$	summation from j=1 to g
\meanin	$\frac{1}{n}\sum_{i=1}^{n}$	mean from i=1 to n
\meankg	$\frac{1}{g}\sum_{k=1}^{g}$	mean from k=1 to g
\prodin	$\prod_{i=1}^{n}$	product from i=1 to n
\prodkg	$\prod_{k=1}^{g}$	product from k=1 to g
\prodjp	$\prod_{j=1}^{p}$	product from j=1 to p
\one	$\mathbf{1}$	1, unitvector
\zero	$\mathbf{0}$	0-vector
\id	$\boldsymbol{I}$	I, identity
\diag	diag	diag, diagonal
\trace	tr	tr, trace
\spn	span	span
\scp	$\langle \#1, \#2 \rangle$	<.,.>, scalarproduct
\Amat	$\mathbf{A}$	matrix A
\xv	$\mathbf{x}$	vector x (bold)
\xtil	$\tilde{\mathbf{x}}$	vector x-tilde (bold)

\yv	$\mathbf{y}$	vector y (bold)
\Deltab	$\boldsymbol{\Delta}$	error term for vectors
\E	$\mathbb{E}$	E, expectation
\var	Var	Var, variance
\cov	Cov	Cov, covariance
\corr	Corr	Corr, correlation
\normal	$\mathcal{N}$	N of the normal distribution
\iid	$\overset{i.i.d}{\sim}$	dist with i.i.d superscript
\distas	$\overset{\#1}{\sim}$	... is distributed as ...
\ind	$\perp$	... is independent of ...