MATHEMATICAL ABBREVIATIONS

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Contents

1. Introduction

This is a document for mathematical abbreviations. See wiki for a more completed description. See also the mathematical jargons.

2. Jargons

c.f.	compare (as a reference)
WLOG	without loss of generality

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3. Mathematicians

AA	Arzelà–Ascoli		BS	Brumer–Stark
AB	Auslander–Buchweitz		BT	Banach–Tarski
AF	Andreotti–Frankel		BT	Barsotti–Tate
AG	Auslander–Gorenstein		BT	Bruhat–Tits
AK	Ariki–Koike		BU	Borsuk–Ulam
AK	Ax–Katz		BW	Bolzano–Weierstrass
AL	Atkin–Lehner		BWB	Borel–Weil–Bott
ALW	Ax–Lindemann–Weierstrass		CG	Clebsch–Gordan
AO	André–Oort		CJ	Chen–Jiang
AR	Auslander–Reiten		CKN	Caffarelli–Kohn–Nirenberg
AS	Artin–Schreier		CM	Castelnuovo–Mumford
AS	Atiyah–Singer		CM	Codazzi–Mainardi
AS	Ax–Schanuel		CP	Cauchy–Pompeiu
AW	Alexander–Whitney		CR	Cauchy–Riemann
BB	Baily–Borel		CS	Cappell–Shaneson
BB	Barr–Beck		CS	Cartan–Serre
BB	Beauville–Bogomolov		CS	Cauchy–Schwarz
BB	Beilinson–Bernstein		CS	Chern–Simons
BBDG	Beilinson–Bernstein–Deligne–Gabber		CS	Clausen-Scholze
BC	Banach–Colmez		CS	Cotlar–Stein
BCH	Baker–Campbell–Hausdorff		CV	Calderon–Vaillancourt
BD	Breen–Deligne		CW	Chevalley–Warning
BGG	Bernstein–Gelfand–Gelfand		CY	Calabi–Yau
BK	Bloch–Kato		DB	Deligne–Beilinson
BKK	Bernstein–Kushnirenko–Khovanskii		DK	Dold–Kan
BL	Bernstein–Lunts		DL	Deligne–Lusztig
BL	Bombieri–Lang		DM	Deligne–Mumford
BL	Borel–Lebesgue		DM	Dieudonné–Manin
BM	Blakers–Massey		DP	De Concini–Procesi
BM	Borel–Moore		DP	Dold–Puppe
BM	Brauer–Manin		DR	DeBacker–-Reeder
BMK	Riesz–Markov–Kakutani		DS	Deligne–Serre
BMS	Bhatt–Morrow–Scholze		DT	Dold–Thom
BN	Browder–Novikov		DT	Donaldson–Thomas
BP	Brieskorn–Grothendieck		DW	De Rham–Weil
BP	Brieskorn–Pham		DW	Dowling–Wilson
BQ	Bloch–Quillen		EH	Eckmann–Hilton
BS	Banach–Steinhaus		EK	Enriques–Kodaira
BS	Banach–Stone		EL	Euler–Lagrange
BS	Borel–Serre		EM	Eilenberg–MacLane
BS	Bott–Samelson		ES	Eichler–Shimura

ES	Eilenberg–Steenrod
ES	Eisenbud–Schreyer
ES	Eisenbud–Shamash
EW	Eilenberg–Watts
EZ	Eilenberg–Zilber
FD	Fourier–Deligne
FF	Fargues–Fontaine
FJ	Fulton–Johnson
FK	Feynman–Kac
FL	Fontaine–Laffaille
FM	Fontaine–Mazur
FM	Fourier–Mellin
FM	Fourier–Mukai
FM	Freyd–Mitchell
FS	Fargues–Scholze
FS	Fourier–Sato
FS	Frobenius–Schur
FT	Farrell–Tate
FT	Feit–Thompson
FU	Fréchet–Urysohn
FW	Fontaine–Winterberger
GC	Gauss–Codazzi
GGP	Gan–Gross–Prasad
GL	Genestier–Lafforgue
GL	Green–Lazarsfeld
GM	Gauss–Manin
GM	Goresky–MacPherson
GM	Grothendieck–Messing
GP	Gross–Prasad
GP	Gross–Prasad
GS	Garcia–Sankaran
GS	Gelfond-Schneider
GS	Golod–Shafarevich
GS	Gram–Schmidt
GV	Gopakumar–Vafa
GV	Gromov–Witten
GW	Grunwald–Wang
GZ	Gross–Zagier
HB	Hahn–Banach
HB	Heine–Borel
HJ	Hamilton–Jacobi

HL	Hardy–Littlewood
HLS	Hardy–Littlewood–Sobolev
HM	Hasse–Minkowski
HN	Harder–Narasimhan
HR	Hodge–Riemann
HS	Hartshorne–Serre
HT	Hodge–Tate
HW	Hasse–Weil
HZ	Hirzebruch–Zagier
JH	Jordan–Hölder
JM	Jacobson–Morozov
KA	Krull–Akizuki
KAM	Kolmogorov–Arnold–Moser
KH	Kobayashi–Hitchin
KL	Kazhdan–Lusztig
KL	Kubota–Leopoldt
KM	Kac–Moody
KN	Kulkarni–Nomizu
KR	Kudla–Rapoport
KS	Kashiwara–Schapira
KS	Kelvin–Stokes
KS	Kirby–Siebenmann
KS	Kodaira–Spencer
KS	Krull–Schmidt
KT	Kinoshita–Terasaka
KW	Kronecker–Weber
LH	Leray–Hirsch
LK	Langlands–Kottwitz
LM	Levi–Malcev
LM	Lê–Milnor
LO	Littlewood–Offord
LR	Langlands–Rapoport
LR	Littlewood–Richardson
LT	Langlands–Tunnell
LT	Lubin–Tate
LV	Lawrence–Venkatesh
LW	Lindemann–Weierstrass
LZ	Liu–Zheng
LZ	Lu–Zheng
MA	Monge–Ampère
ML	Mordell–Lang

MM	Manin–Mumford		RT	Riesz–Thorin
MN	Milnor–Novikov		RZ	Rapoport–Zink
MP	Moore–Postnikov		SB	Severi–Brauer
MS	Merkurjev–Suslin		SN	Skolem–Noether
MS	Myers–Steenrod		SS	Schneider–Stuhler
MT	Mumford–Tate		SS	Sobolev-Slobodeckij
MV	Mayer–Vietoris		SS	Stanley–Stembridge
NN	Newlander–Nirenberg		ST	Serre-Tate
NP	Newton–Puiseux		SW	Schur–Weyl
NS	Navier-Stokes		SW	Shareshian–Wachs
NS	Nielsen–Schreier		SW	Siegel–Weil
NS	Nikolov–Segal		SW	Spanier–Whitehead
NU	Neukirch–Uchida		SW	Stiefel–Whitney
NU	Neukirch–Uchida		SZ	Schur–Zassenhaus
PB	Pierce–Birkhoff		SČ	Stone–Čech
PH	Poincaré–Hopf		TM	Thom–Mather
PL	Phragmén–Lindelöf		TN	Tate–Nakayama
PL	Poincare–Lefschetz		TS	Thom–Sebastiani
PT	Pontryagin–Thom		TT	Tomita–Takesaki
PV	Poincaré–Verdier		TW	Taylor–Wiles
PW	Peter–Weyl		VB	Vietoris–Begle
PW	Pila–Wilkie		VC	Vapnik–Chervonenkis
RH	Riemann–Hurwitz		WD	Weil–Deligne
RHW	Rota–Heron–Welsh		WW	Wigner–Weyl
RK	Riemann–Kempf		YM	Yang–Mills
RM	Riesz–Markov		ZP	Zilber–Pink
RMK	Riesz–Markov–Kakutani		ZR	Zariski–Riemann
RS	Rankin–Selberg			
RS	Riemann–Stieltjes			
RT	Reshetikhin–Turaev			

Remark 3.1. de Rham, Białynicki-Birula, Mittag-Leffler, and Levi-Civita are individuals, while Birch and Swinnerton-Dyer is not a trio.

Kollár, Shepherd-Barron, and Alexeev is not a quartet.

4. Subjects related

AG	analytic geometry
AG	algebraic geometry
AG	arithmetic geometry
CFT	continuous Fourier transform
CFT	class field theory
CFT	conformal field theory

DDG	discrete differential geometry
DG	differential geometry
DG	differential graded
DGS	differential graded sheaf
GMT	geometrical measure theory
LA	linear algebra
RT	representation theory

LLC	local langlands correspondence
GLC	global langlands correspondence
MMP	minimal model program
HoTT	homotopy type theory

5. Geometrical objects

EC	elliptic curve
MF	modular form
TVS	topological vector space
LCTVS	locally convex topological vector spaces
LF	limit of Fréchet spaces
IC	intersection complex
mHs	mixed Hodge structure
wps	weighted projective space
PS	Punkt un Strahl

6. Other math stuffs

SC	Schanuel Conjecture
sc	supercuspidal
sc	superconformal
sc	semicontinuity
sc	simply connected
ss	supersingular

ss	semisimple
ss	semistable
ss	semistandard
FT	Fourier transform
HT	Hilbert transform
psh	plurisubharmonic
spsh	strictly plurisubharmonic
pscv	pseudoconvex
spcv	strictly pseudoconvex
CS	classical symbol
CS	computer science
CM	complex multiplication
Bl	block
Bl	blow up
SYT	standard Young diagram
ES	Euler system
PD	Poincaré duality
PL	piecewise linear
SNC	single normal crossing
CC	characteristic cycles
CC	cluster character
LMD	local Morse data
NMD	normal Morse data
MC	middle convolution
LSA	local stratified acyclicity
SMT	stratified Morse theory
CIT	conjecture on intersections with tori
eMZVs	elliptic multiple zeta values
GAFT	General Adjoint Functor Theorem
SAFT	Special Adjoint Functor Theorem

7. Other non-math stuffs

CSG	Constructive solid geometry

8. Universities

HU	Humboldt-Universität zu Berlin
TU	Technische Universität Berlin
FU	Freie Universität Berlin
BMS	Berlin Mathematical School

Berlin:

RTG	Research Training Groups
IMPRS	International Max Planck Research Schools
WIAS	Weierstrass Institute for Applied Analysis and Stochastics

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