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

3. MATHEMATICIANS

AA	Arzelà–Ascoli
AL	Atkin–Lehner
AR	Auslander–Reiten
AS	Artin–Schreier
AW	Alexander–Whitney
BB	Baily–Borel
BB	Beilinson-Bernstein
BC	Banach–Colmez
BCH	Baker–Campbell–Hausdorff

BGG	Bernstein–Gelfand–Gelfand
BM	Borel–Moore
BS	Banach–Steinhaus
BT	Bruhat–Tits
BWB	Borel–Weil–Bott
CKN	Caffarelli–Kohn–Nirenberg
CP	Cauchy–Pompeiu
CR	Cauchy–Riemann
CS	Cauchy–Schwarz
CS	Clausen-Scholze
CY	Calabi–Yau
DB	Deligne–Beilinson
DL	Deligne–Lusztig
DM	Deligne–Mumford
DM	Dieudonné–Manin
DS	Deligne–Serre
ES	Eichler–Shimura
EW	Eilenberg–Watts
EZ	Eilenberg–Zilber
FF	Fargues-Fontaine
FK	Feynman–Kac
FL	Fontaine–Laffaille
FM	Fontaine–Mazur
FM	Fourier–Mellin
FM	Fourier–Mukai
FM	Freyd–Mitchell
GM	Gauss–Manin
GS	Gram–Schmidt
GZ	Gross–Zagier
HB	Hahn–Banach
HN	Harder–Narasimhan
HR	Hodge–Riemann
HT	Hodge–Tate
HW	Hasse–Weil
JH	Jordan–Hölder
KAM	Kolmogorov–Arnold–Moser
KL	Kazhdan–Lusztig
KM	Kac–Moody
KS	Kodaira–Spencer
KS	Krull–Schmidt
KW	Kronecker–Weber

LH	Leray–Hirsch
LK	Langlands–Kottwitz
LR	Langlands–Rapoport
LT	Langlands–Tunnell
LT	Lubin–Tate
LZ	Liu–Zheng
LZ	Lu–Zheng
MV	Mayer–Vietoris
NS	Navier-Stokes
PW	Peter–Weyl
RS	Rankin–Selberg
RT	Riesz–Thorin
RZ	Rapoport–Zink
SS	Stanley–Stembridge
SW	Schur–Weyl
SW	Shareshian–Wachs
TN	Tate–Nakayama
TW	Taylor–Wiles
WD	Weil–Deligne
WW	Wigner–Weyl
GP	Gross–Prasad
AS	Ax–Schanuel
AS	Atiyah–Singer
ALW	Ax–Lindemann–Weierstrass
GP	Gross–Prasad
GGP	Gan–Gross–Prasad

4. Subjects

AG	algebraic geometry
CFT	continuous Fourier transform
CFT	class field theory
CFT	conformal field theory
DDG	discrete differential geometry
DG	differential geometry
GMT	geometrical measure theory
LA	linear algebra
RT	representation theory

LLC	local langlands correspondence

GLC	global langlands correspondence
MMP	minimal model program

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

6. Other math stuffs

SC	Schanuel Conjecture
sc	supercuspidal
sc	semicontinuity
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
Bl	block
Bl	blow up
SYT	standard Young diagram

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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