A Complete Bibliography of Publications in
Linear [and] Multilinear Algebra

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13 December 2019
Version 1.12

Title word cross-reference

(0, 1) [FV97, Kim97, Zel85, BF15, BS18d, Cao19, KS83, LN10, Min74d, Zho16].
(0, 1, –1) [GZ99]. (1, –1) [KS84]. (1, 0) [MP13b]. (1, 1) [Zha20, Che03b].
(1, 2, 3) [GK18]. (2) [Che95a]. (2, 2, 2) [SF17]. (2, p) [YD14]. (α, β) [YZ13].
(α, β, γ) [KO10]. (AXB, CXD) = (E, F) [YLW15]. (b, c)
[Boa19, Dra18b, KCICV18]. (e(xry)) [Pre85]. (k) [Cha77, Cha79a]. (k + 1)
[BT06]. (k, l) [Rem90]. (k = 2, 3, 4) [Sta15b]. (max, +) [HKT15]. (n + 1)
[Sch78, Sch75]. (n, k) = (4, 2) [JLL88]. (n, m) [CM19]. (p, h) [DV18]. (p, q)
[KL95]. (p, y) [ADRP14]. (qr) [Raw81]. (R, S) [fLLyP15, Pen15]. (s, p) – w
[Ras17]. (√5 – 1)/2 [Sim95]. (T) [Che95b]. (v, k, λ) [Der83]. (Zn)* [How86].
–2 [Ano16b, BPS16]. 0 [HNS99, HLT05, JS96, Wu09]. 0, 1 [MS79, BX07].
0 ∉ F(Am) [JL90]. 1
[CM15, DFK19, Fra17, HNS99, HLT05, JS96, KP14a, Min77, Sta10, Wu09].
1, 2, 1 [KHG13]. {1, 2, 3} [ZX10]. {1, 2, 4} [ZX10]. {1, 3} [CM19]. 10 [LN10].
*-algebras [Ng14], *-derivations [FA19, LWZ15, QZ16]. *-identities [GV95].

*-isomorphisms [IT16]. *-superalgebras [FdSV16, GdSV16].

-congruence [HS09].


-dimension [Far94, MC19, YLL90]. -Divergence [KD16].


-hypertournaments [KKP13]. -hyponormal [Ras17, Ras19]. -ic [Ch78].


-majorization [Nie07]. -Martices [MNN98]. -Matrices [JT95, Min74d, Cao19, EV77, GZ99, HS93b, KS83, KS84, MS79, Meh84, NS93, Roh89b, Zho16, EMS02, GN02, And80b, BCN05, CKN95, DJL94, ES98a, FS83, Ha88, Ibr00, Joh77b, KS14a, Lee91, Li95, LLZ13, LZ16, MSZ04, Mia93a,
Nab98, NP80, Neu84, Sin90, Smi94, SH98, Stu89, WS18, YZH19.


03081087.2015.1020746 [Aono16c]. 03081087.2015.1107020 [Aono16b].


3-tensors [LPZ13].

6 [TT78]. 63 [Aono16c]. 64 [Aono16b, Slo18b]. 65 [Slo18a]. 67 [HJ19a].

7 [Aono79b].

accrative-dissipative [KS19b]. accurate [Uhl14]. achievements [Abd20].
acting [Fri97, KME012]. action [Liu16b, Mer78b]. actions [RP04]. acyclic
[AEfD13a, AEfD13b, DDF15, KS09, Moh16b, dF13]. Addendum
[JR93a, Ric87a, Ba176]. addition [EL09, LS96a, LS96b]. additions
[LS16, NS03]. Additive
[BHD10, BLZ11, Che14a, CK19, DHB07, FLS88, Gha12, JQ15, Kuz05, LP02,
OK07, Pet97, Tag12, Tz06, XCC99, XPY16, XL17, Zha04b, ZS05, ZCWi12,
AGV19, AS15, CdF03, Cho10, Fin92, MO13, Sm183, mWyD11, YZ13].
Additivity [DW12b, QH11, AA12, Gro99, Har81b, Tia05a]. Adjacency
[Hua10, Lim10, BR14, But10b, KFR17, KFR20]. Adjacent [DJK08, CW93].
adjoint [CGY13, CKL16, DRW93, FJS14, HH16, Kyr08, LLM05, LT13,
Moo95, ST19, Tz06, Tan13b, XS18]. adjointness [FS19, Kit91b, Sin84a].
Adjoints [Mar75, Ra18, ER81]. adjudicate [Sin82a]. adjusted [MH12].
Adjustment [Har95]. admissibility [BV16b]. admissible [Aze99].
admitting [Gar75b, MID17]. advances [Mer79c]. affects [Har81a]. affine
[BBT07, FP17, GX17b, Kes83, dSP16b, Wit11]. afforded [Mer78b]. Aitken
[Min74c]. Alexander [Min74c]. Algebra
[DS02a, HJ19a, Mac09, Slo18a, Slo18b, SK03, Aln11, BPS00, Bed11, BLZ11,
BV92, Boa13, Bre12b, BS18c, BF96, BSS12, Car88, Car90, Cha90a, CKLP13,
CWS17, CS18, DK11, De 82b, Din15b, FW73, Gai77, Gor83, GR10,
GP94, GV87, Gu88, IK12, Jac79, KS15, LCL13, Lkg55, LZ12, LGB17,
LG19, MS85a, Ma`15b, Mer92, OWX09, Pat86, Pat89, Pow88, Prz92,
Tz19b, TS19, Wad90, Wal79a, WOY06, W1wp14, Yam18, YWO07, ZT12,
ZWW10, ZW14, dBS00, Ano79b, Ano16b, Ano16c, TT78, MT84]. Algebraic
[AS02, BJ96, BF98a, FKP03, Gur97, KN97, KP02, LZT18, Pat86, Tho90,
WOW09, Wu05, Ze185, BL12, Bar07, Bar12, Bé10, CK84, Din00, DLL19,
Epk89a, FNI14, Fie90a, GZY18, GL17, Haw05, HS16, KS19a, KF98, Kir00,
KMM1, Kn04, Kun18, LLR87, Lim92b, LGB17, Ma’a15b, New85a, NF19,
PT10, Prie92c, Put82a, Put82b, TJ16, XSL15]. Algebraically [Had83].
Algebras [BBD07, Bre15, Che14a, DSO4, Fin92, Kay17, LR17, Luk74, M02,
ST15, ARH15, AF11a, AF11b, AF12, AM15, AN14, AAP82, Ake83, AAB15,
EELPM18, AG19, AC19, AG15, AH13, AXH15, AG18, BHD10, BL10,
BHD11, BWL12, BD12, BW15, Bed10, BX11, BBBS09, BR10, BB17b,
BBM15, Ben15, Ben16, BCS14, BCS18, BM14, BS18a, BDV9, BB14, BG16,
BH13, BH16, BM17b, BM18b, BTW07, Bre14, Bre16, BH15b, BL11, BF12,
BF18, Bum94, Caf13, CR15, aCC17, CGNT15, CCG011, CCG103, COK19,
CV94, CLOK13, CR18, Cen11, CC19, CW11b, CX12, CW12, Chi78, Cho10,
CV19, CIDK07, DM17, Di 88, DKS09, Dok73, DR18, Dre93, DW12b,
DW16, Egg95, EM15, EKO14, EPR16a, EPR16b, Far93b, FJK14, FZ17,
Fdm18, FA19, GLOT13, GP14]. algebras
[Gha12, Gha13, GMV18, GS95, G007, GT11, Gra10, Gra11, Gur80, HK16a,
Hil76, Hon19, HFS15, Hou17, Hq18, Hu96, HLH18, HZXL15, IM18, Iop19,
JP15a, JLZ12, JS13, JQ15, JX13, Kan16, KK75, KKL20, KP16, KPPV18,
KPS19, KLO14, Koz19, KLO19, Lof80, Lof84, Law19, LZ09, Lee15, LS16, LB11,
algebras
[MM92].

algorithm
[AAB17, DCLW19, Fog73, GTLN18, Gre99, HKT15, HRT15, fLLyP15, LLV18, Mum86b, TT15, Uhl13, XJW17, vD96].

algorithms
[Blo95, CW90, Che95a, HM18, WX19].

all-derivable
[LPS13, ZXL16]. allow [FHL13, LHbL15].

Almost
[BP19, Rum97, CS19, GdSV16, ND05, PR12, WHG17, Zel75].

almost-commuting
[Zel75]. alone [De 82b]. along [BB17b, Sza09, ZCP16, ZPCZ16, ZPC17].

alternative
[Kuz05]. Alternating
[Bri89, KM17, BS07, FHZ17, GQ06, Hor04, MN13, Mis17, Re75].

Alternative
[ST80, Bar07, Mel10, Mel18, Ve83a]. alternatives
[Roh04].

Aluthge
[And04, CM19, JLL07, RS08b]. AM
[Bak16]. AM-GM
[Bak16].

Amitsur
[AR16, DP18]. among
[Tan10, TLL11, TLC16, XL11]. Analog
[BG93a, CH87, Foa79]. analogous
[CW91].

Analogue
[Bed11, KA19]. analogues
[AdFK15, Gar79, HS96, Hon92, Hon93, LN16, Zha97].

Analysis
[CLX03, BX11, BWV84, Chu84b, DLQ18, KW89, LYS15, LZ19a, MMRR09, Me91, SRD19, Ste94a, XL15, ZY13, ZBW12, vD96].

Analytic
[FS83, Fla74a, LCC17, Tur02, Fan83, FJS14]. analyticity
[JMS19].

Ando
[FS15, HSW19]. angle
[Bai80, Zha13].

angles
[Gal08].

Anisotropic
[Pie74].

Annihilating
[MW74a]. announcement
[Tho90]. answer
[GR14].

Answers
[BHM76].

Anti
[BF12, AF11a, AF11b, AF12, AAB17, BSZW13, Haj18, HS12, LLL09, LL10a, XSH18].

anti-
[AAB17, LL10a].

Anti-automorphisms
[BF12]. anti-involution
[AF11a, AF11b, AF12].

anti-Loewner
[HS12].

anti-reflective
[Haj18].

anti-symmetric
[LLL09].

anti-triangular
[BSZW13, XSH18].

anticommutator
[DWC19].

anticommuting
[It016].

Antiderivations
[Lim77]. antidiagonal
[AFVL00].

antinvariant
[Tan98].

antiregular
[BZ00]. antisymmetry
[Pat95].

any
[Hua10, LB19].

Anzahl
[GL16]. appended
[MN04].

Application
[MR12, Pat81, ABJ16, ALP94, BKL97, BC91, CDJ13, CH06, Che91, Fri75, JKD16, ILZjZ19, LC18b, Ng14, Paz84, Rau18, SR17, So99, Wan79, WSZL17, ZLS11].

Applications
[Fur08, Gor83, Mer92, Whi80, AAPR19, BAN12, BLZ11, Bru79a, CGMR11, CV94, CKR18, Che92, Cre08, CCLN16, De 82b, DW12a, DHKSH08, Dra17a, FJS14, FLS88, FJK98, GKS01, GHK16, GL16, GLS16, Gur98, HW13, HLM19, Iov15, KM19, KMR989, KT06, LSS16, LLL16b, LPH17, Mai11, Mer94, MS12, Mou04, Mou13, SRW07, SQU15, ySpW17, SL95, Son14, TZ19a, TZ19b, WOY06, WHX08].
Tia01, Tia11a, Tia11b, Tia11c, Uhl79, Wan80, WH12, Wit11, YGÇ19, YZZ20, YSY17, YW09, ZZY16, Zha15a, ZMG20, ZPCZ16, vD96]. Approach [ASZ02, ACMR17, Bar07, BS17d, BAN12, Bur11, CKLP13, Cla92, DP98, Hau12, HRMP95, KMH19, MVPS14, Mon04, SK15b, TX13]. approximable [AGV19]. Approximate [LK16, How83, MMR07, Pas15, Sol14]. Approximation [TD16, TD19, CFSGL18, Che91, CJ12, Hav88, HUZ17, KS17b, UZ16]. approximations [DTSI15, DH16, Hal86, SF17]. Arbitrary [Bom02, BM12, CM07, DM19, Ful76, GS01, HWZ18a, HRT15, KW11, MY12, Mee80, Moh16b, NJP19, Pea84, Uhl79, WM17, Wan17b, ZHLZ13]. arcs [GW08]. arctic [BS17c]. area [MR12]. area-preserving [MR12]. Arf [Ba54]. arguments [Neu83, Rä14b, Rä14a]. arising [DWL13, Lon76]. Arithmetic [Sur98, GHT11, ST94, TLC16]. Arithmetical [Lor00, BL93b, Hau12, Hon99]. arrays [Bre12a, BS13, GP74, Sim83]. articles [Ano97b]. articulation [BLP12]. artinian [HPV84, HPV88, LQ95]. ary [Bed11, GR10, KP16]. Aspects [Whi74, MM06, WW01]. assignment [BH86, CFP10, Gib87]. associated [Ah11, AO97, BC12, BL93b, BT15, Cai13, Cha92, Cha93a, CKN95, DP00, Dia90b, DJL94, Fa97, Gan18, Han17, Heo16, HS88, HT92, HK16b, Hon99, HH14, JLDS12, KH05, LP11, MP73, Moo95, ME18b, TLC16]. associative [Bas17, Bas19, Gol07, Hon19, Hu96, KKL20]. Asymptotic [Har78a, Hon99, BSA17, CW17, DHB07, Geh15, Min80a, MFPSS12]. Asymptotically [La 19]. Atkinson [BBBS09]. attached [ACMR17]. Audenaert [AKK17, Ala18]. Author [Bal76]. Automorphic [Pea84]. Automorphism [MW16, ZWM17a, AF12, TW17]. Automorphisms [BL11, DM13, Fos05a, GWZ16, HLZ02, Leg06, Lud19, OWX09, Wan16a, WWS19, YW007, ZWM17b, ACI15, BFJ12, HS17, Liu18a, Ter06, Ter09]. Autonne [H12]. autonomous [MR12]. average [DH16]. averages [Szw18]. axis [HHC12, Nas75]. Azuma [SX12].
Characterized [EMS02]. Characterizing [GKT97, Joh11, LZ14a, Qi15].

Combinatorial [Tra90]. Combinatorial [AD17, BM18a, BM18c, HS91, Tra89, CW98, CRY95, CR90, RS18, Reg87a, Wan79, WW01, Wil73, BM19b]. combined [BGGS17]. Comment [Gro96]. comments [TT78]. Common [BDK+05, GKL82, Son14, Bar80, BKS12, DMdO92, JP15b, JN90b, TT06, Wil87, Zha04c]. commutant [BBEL18, JS94]. commutative [Bas17, Bas19, Coo99, DM18, FLT20, Fre76, Gus81, KT19, LCL13, LL10a, ILpW16, Mar12, Mas10, OXW09, ySpW17, SM19, SZ19, Tan13a, Tan18a, Tzs19, Tia11a, Tia11c, WOL06, WZL13, Wat85b, YW05, YWO07, WZ10]. Commutativity [DS04, JR93a, JR93b, Kun99, BZ89, DS13, DK16, Fso05b, GR93c, HQ18, JQ15, LL11, Liu15, MS10a, Mol90, Pet97, QH17, Slo16a, WZL13]. Commutativity-preserving [Kun99]. commutator [BLR12, Fei79, GPR84, Gur79, GL83, MW74a, Nof15, Obl12]. Commutators [RR02, Smi76, BKL97, NH15a, CLR81, DP18, Est80, Gill17, HS17, KL12, MS95, OR90, Rob77a, Sha18, Slo13a, WZC11]. Commute [ Ric81, Tur02, BTO8b, HS83a, KE82, Sin76b]. Commuting [Dra13b, Fra13, SB03, BH90, Bea78, BCM18, CM19, CC19, CWZ17, CSY18, Ckl16, Fra17, Gur92, MS10b, TCI13, UPO16, Wad90, Wan79, Wad77, Zel75]. comonads [EGT16]. compact [DH17, Kan16, Kit91b, MT11, Pep11, Rao18, Ruc89, Tam97, XS18]. companion [BT90, ERS12, MR12, Mel19, PH97, dPN81]. compared [Neu74]. comparison [BS92, Blo95]. Comparisons [JM13]. compatible [dSP16b]. Complement [Zha04a, BT06, CPLH17, LM98, Neu81, PRS03, SL95]. complementarity [DN18, GLL18, LZ16, LLV18, MM06, MN96, ND13, WS18, Wer86, WL16c, ZVL18, ZV19]. Complementary [BM15a, FS14]. Complements [Nie10, Bap88, BS18b, Brz79b, CS95, FJ15, Gib92, Smi83, WZ97]. completability [JK95]. Computable [YD14]. Complete [GS95, JN14a, TL13, ADHM19, EM95, HZ11, HWZ18a, HJ77, IS16, Obo16, Shr90, Tan13b, WOW09, ZWL15]. Completely [AKS18, DIL94, AG15, BSM98, D9J8, HJ19a, HJ19b, HH14, JP15b, Koo95, Lei95b, LP11, MP16b, SMB16, Stu89, SL17, Z16]. Completeness [Den05, LBV13, IS15]. completion [BC05, BZ90, BR01, BS18c, CKP16, Cao19, CP18, Der16, Der18, D9J8, DJK08, DCLW19, JJK95, JN14a, JTU00]. Completions [GMR81, GKV89, GRSW92, JR84, JW91, Woe93, Woe97]. Complex [Ano79b, Bal78, CN04, JK79, KFR17, Mac09, MY12, Mir81, Wal73, ABC18, Bal14, Cha90a, CT19, CK87, CL74, DL02, D3k93, HZ12, HQ18, JVMCPP19, KL19, L18, LT88d, LM93, LZ19b, LT07, MF92, RH11a, RH11b, RSO6, Rom89, Sin82a, Sin84a, ST91, ST96, Soa08, Tan13b, Tan18c, Tie16, WL18a, WESIb, tHK17, KFR20]. complexified [Sh18]. complexity [BT90, Con90, Har95]. complic [Bal79c]. component [BCS14, Das17, Fan73]. components
[Bén10, KF98, Lla96, Mum86a, NS92, NS93, Vo83b]. Componentwise [Rum97]. Composite [Que08, KW93]. Composition [Tau81, TH80]. Compositions [AY93, BM07, Wij73]. compounds [BC91, TMOvdD93]. compressing [EM15]. Compression [AP04, GW04, JM85]. compressions [Far94]. Computation [KK16, SKP18, Ma'15b, Uhl14]. computational [Zel85]. Compute [YZ16, FP17, McF79b, vD96]. Computer [MP87a, KCBR87]. computer-generated [KCBR87]. Computing [Car06, CD15, Ous15a, PS91, Rem88, Roh00, Sta15a, Uhl13, FHZ17, GA85, GK18, KPL+09]. concave [AHK19, AA12, Tam02]. Concavity [BD85, Mat90]. concepts [AR15, Shi15b]. Concerning [Har96, Sin80, Sin81a, Sin93, ST99, Tau74, BK87, GT79, Gyi78, KNX93, KNX95, Mou13, Sin82b, TT78, TH80, Zou12]. Concomitants [BB96]. condensation [Cal91]. Condition [LP809, AADD18, CC98, DS13, DLQ18, DKK19, HBC83, Jam88, Jam95, LLW+11, LL17, Liu17, Pal79, Rou08, Zim98]. Conditional [HS12, BG16, FHZ17, JS19, Joh82a, Prew18]. Conditionally [Józ15]. conditioning [Que08]. Conditions [Gam18, Ibr00, JNT96, Lim92b, PH03, AE10, jAS15, BMGC15, CHQ18, DJK08, EOVdD09a, EOVdD09b, GMZ17, Gue17, Gue19, HB83, Hua16, Ikr15a, LLF18, Mar90, Mat15a, Oku93, Pet09, SQ15, Tia05a, Wan82, ZW17b]. Cone [KS02, LMR00, And96, HIl07a, HIl11, Pat03b, TB92, YH05]. Cone-Systems [KS02]. Cone-transitive [LMR00]. Cones [FH73, HSB88, STS99, Bar74, Bar78, BC80, BKS12, CL14, Hil07b, JP17, NS85, NST91, Tan77]. conference [Ano79c, LRT08]. configuration [NS90, Nat13, SG06]. configurations [TL13]. conformal [aCC17, CSY18, DH98, Hon19, TZ19b]. Congruence [LT92a, Le98, MA75, ACI15, Bot97, FJ01, FJ09, GL97, HH89, HS89, JR09, Le91, Le95b, LM93, LPWX10, Tam85, Tho80, Wat90, Wil83]. congruences [HHS85, Ikr15b]. Conjecture [Kit81, Wan07, AYT83, BMD87, BD96, Bri89, Bur11, Cha89, Cha83a, Cha84b, DJ89a, EM95, EF98, Esh17, Fie84, For79c, Fri78, Fri82a, GHB87, Gou13, Gum15, GLS13, HS93b, Hu87, Hu94, HL10, Jia92, KM84, Koo95, KMH19, Law19, Lon80, Lon81, ML12, Mal89, MR07, Min74d, Min82b, Moh15, NT94, Pat89, Pat93, Rad80, Ric85, Ric87a, Rub89, SYZ17d, Sii84, Sin81b, Tam86, Wan77, Wri93, Yu96, Zou12, dF05]. conjectured [Tho86h]. conjectures [Ash16, Cha90b, Kop94, Meh84, Shi16]. conjugacy [Ell95]. conjugate [CD01, JTW17]. conjugate-Hankel [JTW17]. conjugate-Toeplitz [JTW17]. conjecture [Cal01]. Connected [BB19b, KS17a, RP90, ACMR17, MT11, Put82a, Put82b, SSI15, SH17, ZW17b]. Connectedness [MT11]. connection [KP14b, Lon73, MZ17, MP98, MA15c, ZD08]. Connections [Wal79a]. Connectivity [FKP03, KPO2, ZG11, BP98a, BLP12, FHZ17, Fie90a, GZY18, KS19a, KN97, KF98, Kir00, KMN01, KNO4, LCC17, Vo83c, Wu05]. consequences [GT11]. consistency [FM16, IY19]. consistent [Gib89, Sti87]. consisting [TL12, ZW10]. constacyclic [CHFC19]. Constancy [Bal79a]. constant [BF75, FV97, For79b, Fre76, GLR82, KS93, Kut19, LSOvdD95, MH19, Wes90].
constants
[CLL14, Che95b, Gol87, JRMFMASS16, Ma'15b, MFPSS12, NASR19].

constrained
[LMR94a, LW10, Nak95, Pap13]. constraint
[fLLyP15, ZHZ11].

constraints
[Din98]. construct
[CG17, Slo14a]. constructed
[COK19, LF16]. Constructing
[GP14M, LV18, LF15, Sou83, MMG15].

Construction
[Ber86, HK16a, KW92, KW93, Mai11, MC86, SDVWT16, Smi05, Sun15, Wal75b, WW80, Bha93, CC17b, Far93b, Foa79, Hun83, JS08, JSMW9, TT74].

Constructions
[BW15, MTR11]. Constructive
[Cro18, DP98]. contain
[Bas17]. containing
[HW75, Pat84]. contents
[Ano92g]. context
[Boa19, BDW12]. Continuity
[Cam80, CJK+13, Mey15, CP13, LLS14, LLS16]. Continuous
[LP16, Poo17, Slo16a, ADPR14, GT08, HF18, JK10]. contract
[BVW84].

contractions
[FH89, Grz91, HS83b, WZD16]. Contractive
[XXZ11].

corrections
[BL80, CF15, DHKSH08, DHKS16, Har94, Ig99, Lia80, ShDHG08].

Controllability
[HJ87, JN90b]. Convergence
[Doo16, Han18, NST89, Swz18, BB14, LW17, Neu84, Xu18, ZV19].

Convergent
[CP81, YZH19]. Converse
[JN90b, NS18]. Converses
[Mar76, SV14]. Conversion
[CA03, CD98]. Convertible
[Ber12, CD01, HK92, HKS95, Kin97, KS83]. Convex
[And04, ES98b, ES00, EMS02, Fri81, JT95, AKH19, Anj17, AA12, Bar78, BPD88, Che17, DW92, DV18, Fri84, Gill2, KD16, Li86, Li87a, LST89, LT89a, Li98, MM90, Poo94, Prz92, SSZ93, Tho75a, Tho75b, TI77, TT18, Woe08]. Convexity
[Hwa91, ST96, AY84, KMRS89, Lék19, Li96, Man87, SP87, Tam97].

convolutional
[La 19]. Coperturbation
[AFM13]. Copies
[Bad19].

copositive
[BS17e, Hi18, SQ15]. coprime
[LT12b, Tan10, TLL11, TLC16, XL11]. coproducts
[Nas74]. Copon
[CM10]. coquaternions
[FMSS19]. coranks
[Ger86]. Core
[BT10, PM14, BY76, LC18a, LCZW19, MRT14, Mar18, Mos19, WL15, ZP19].

Core-EP
[PM14, Mos19]. core-nilpotent
[Mar18]. corona
[CL17c, LZ14b, WZ13]. coronae
[LP17]. coronas
[BS17a, DP17, Sta10].

Correction
[Cal99, Dok93, Tra90, MS16b]. Corrections
[KNX95, LLS16, NS93]. corrector
[Chu84b]. correlated
[Sma17, TJ16].

Correlation
[JT04, Pat03a, Dat16]. correspondence
[Foa79, Wat86].

corresponding
[Bén10, CL86a, CL86b, FD14, Har81a, Kyr08, Kyr11, LD19, SLUG04].

Corrigendum
[Ano17, Bon14b, BM19b, JJL19a, KFR20, Ral14a, Slo18a, Slo18b, SLH18].

cosets
[Hol04]. cospectral
[BB19b, But10b, HS95, LV18]. Cospectrality
[Ob16, Tur18].

Cosquares
[Bal78, Bal79c, Rad80]. costandard [GMZ11].

cotangents
[Cal95a]. Counterexample
[DJ89a, EF98]. counterexamples
[BH74]. counterpart
[Lou97]. Counting
[KK90, Ota13, Sur98]. coupled
[JS15, BS17d, Pen15]. covariance
[TJ16]. covariances
[Ren94].

covariants
[Bed10, BB17c]. covectors
[MC19]. cover
[BS16]. Covering
[Bou06, Hou17, MS87, WHX08]. Derivations
[Che03a, Lim92c, WOY06, YW10, ADD18, AH10, AH13, AXH15, Ben07, Ben15, Ben16, Bre16, Cal94, CGOT13, CX12, Da 94, DD15, EPR16a, EPR16b, FZ17, FA19, JLZ12, JQS13, KP16, Khr16, LWZ15, Lee16, LCL13, LZ11a, LW11a, LB11, LLF14, LL10a, LL11, LCL14, Liu16a, Liu17, LL18, Liu19, Lon76, Lud19, MJ07, Mag13, Mag14, MW74b, MA75, Qi15, QZ16, ST99, TRD16, WY11, Wan18, WX12, YZ13, YF18, ZWZ10]. Derivative
[Tur02, Dec74, DM87, MS81, OvdD77]. derivatives [KE82]. derived
[CHFC19, EB17, HS91, NJP19, SK15b]. described [Gon17]. Description
[GMZ11, Bal18, Hil07a, Hil11, Li92]. Design
[Chu84b, WM84]. Designs
[GK02, NW02, Der83, GGW76, LN10, Sna17]. detection [Kar90].
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[CD03, Nag17, BS15b, BM07, Cal91, FV97, FLR85, Han19, HS96, Hon91, JOTvdD94, Kua18, Lau81, LSOvdD95, Limit9b, Lit17, LC83, McD82, Min77, QK92, Rou98, Vei82c, Wen06]. Determinantal
[BJ94, CNUV16, Kyr11, YW09, BP98b, BM18a, BP18, Drum14, DL14, HL84, Hon92, Hon93, Li92, LZ17b, Lon97, New79, New82a, Vei83a, YLC19b, dC13, dC15, dC18]. Determinants
[BT15, HZ11, LT12b, MN80, Mah82, New80a, PA94, Pri78, SwV14, TT12, Tan14, TT78, BMD87, Bla77, ES73, Est80, FW86, Gar75b, Hon99, HH14, JNT96, LPS08, LM19, Loe87, MS89, Min80b, Odo83, Pan14, Sim83, Sto79, TX13, Tho75a, Vei82c, Vei82a, Vei82b, Vei83a, Vei83b]. determined [LL16b].
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[BMGMC15, Kas85, Vo83a, AS12]. developable [BB13].
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[BGGS17, CS18, DV19, Wan76, Bal79b, BP78, BOvdD91, BKS12, BS08, Bur95, DHH95, DD12, FS89, HH85, Hon91, lkr15b, JR09, JLD82, sL19b, Lec18, LM89, Lon90, Mlr92, Moo76, Neu83, Pat82, Pok87, Pri78, Sha91, Sto79, TT78, WOY06, WC12, Zab89]. diagonalisability [Kob06]. diagonalizability [FHL+13]. Diagonalizable
[Tur02, KS16, Nie14, WW12]. Diagonalization
[AY74, MS10b].
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Diagonalizations [Uhl79]. diagonalizable [BCKP10, LML17].
Diagonals
[EM73, Pif87, BS08, Lás91, Web83]. dialgebras
[BPSO12, FSFSO+14, KV13, SDVWT16]. Diameter
[JS16, Tsi83, GL11, LP07, TJ11, VH95, WH11]. diamond
[Chu84b, LPT14]. diassociative [Bre17]. Dickson
[FSFSO+14]. dicyclic [DP00]. Dieudonné
[BGLS07]. Diffeological
[Per19]. Difference
[KR03, AHT85, BB19c, DH17, ESAJ18, FN14, HP90a, Ig99, JvdD91, Mia93a, Sal14, Si88c, Si88b, SS96, TCI13]. differences [TX13]. differenciable [CCL10]. Nom73]. Differential
[LLG19, BBT07, BZZ11, Cam83, CW17, DTSI15, Fin92, HSX16, Lon76, NS99, NT91, Wit11, XSL15]. differing [New93]. digital
[Chu84b, Sto79]. digraph
[BBSZ15, DK17, LM10, SZW16]. Digraphs
[AVVA18, BP90, BP16, BR19, CFGM06, FKC19, KP12, KFR17, LM10, PR08, Rad12, SG05, SG09a, SG09b, SSG12, KFR20]. Dihedral
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dilations [CL00]. dilute [Din15a]. Dimension
[ASZ02, Gra80, Hov80, Lim00, BM14, BM16, Cen11, CL86a, CL86b, CR77,
Con77, GPK94, MM09, MN13, NJP19, Pam87, Rob75, Rom89, TH14, Wri93].
Dimensional [BR04, ySpW14, ARH15, AELPM18, BC83, Bar07, BB14,
Car88, CDJ13, CW11b, CX12, CL17b, Das17, Dok83, Edw78, Far94, Gol79,
Gol07, KK75, KL15, LF15, Liv94, MC19, Nag17, Nir11, Pas15, Rai87, RH11a,
RH11b, RS08a, RS09, Sel81, Tal17, Tan18c, WC12, YLL90]. Dimensionality
[Hil76]. Dimensions
[MR74, Cas91, DBG18, Jon78, MO91, MM76, WL16a, WL16b]. dimer
[Min80a]. d'intégrales [BC06]. direct
[BHK10, Fow80, Gol92, Hol84, Hol85, KLO14, KL13, LW10, RC18, Tho92c].
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directions [Abd20]. disaggregation [HUZ17]. disc [CPLH17].
Discontinuous [GL01, Fr97]. Discrete
[Dic84, Elo18, FN14, GMZ17, Gue19, HMO11, KW89, KK18, LRR87, IWIY19].
discrete-time [Gue19]. Discriminant [Pie79]. Discriminants
[Wad85, Edw80]. discs [AK94, GW12]. Disjoint
[Bru79b, CT16, Tia11a, WSH+11]. displacement [Boz97]. Disproof
[Gib87]. dissipative [KS19b]. Distance
[Aue95, BHD11, BECM12, HW08, LT99a, LLD17, Rum97, Sha15, ZW17a,
AW07, AH16a, Aue98, BS11, BK17, BS17a, CC14, CFGM06, Cos14, DFK19,
DAH19, DMV18, Dod13, DIF13, GB11, HS95, HS16, JIK95, KLPK17, LS12,
LS13, LL15, LXL18, LZ19c, LT13, LXB17, LHH18, MS89, NP13, Pat07,
RP90, Sch92b, SP87, TG90, WZ91, XZL14, ZG11, ZBW16]. distance-
[DFK19]. distance-2 [DFK19]. Distance-regular [BCEM12, HS95].
distance-regularity [CFG06]. distances [SWZB15]. distinct
[AOTR11, CJ97, KLPK17, MTR19, Ota13]. distribution
[LN14, Sto79, Ti98]. Distributions [FKR93, TL12]. distributive [CZY12].
Divergence [KD16]. Divided [TX13]. Divisibility
[DK11, Tan10, TTL11, TLC16, Wit11, XL11, Zha14b, Hau12, LT12b, Tho88].
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[HH14, Kri87, LT12b, Tan10, TTL11, TLC16, XL11, ZWM17b]. divisors
[Bar80, BC91, CG19, D816, Gau76, GKL82, MW74b, Mef79a, Mef79b,
M73, Min82a, New79, New82a, Nor86, Tho86a]. Djordjevic [ZZY16].
DMP [Zhu19]. Do [MS10a, BT08b, Kuz05]. does [BPW16, Sta10]. doi
[Ano16b, Ano16c]. domain [BJS98, Dix97]. domain-range [BJS98].
domains [NST89, Wag87, Wei93, WY18, WY09]. Dominance
[Chm90, GMW86, Hey88, JP87, MS12, Pat89]. dominant
[BCKP10, CPLH17, Hav88, Lee94, LLLL17, Pri78, Sin77, TT78].
Dominated [Pop17, BPR14]. domination [WWS19]. Double
[FL18, BF05, DLL19, JS94, Sch95, SH92, Tal17, YW10]. double-one [SH92].
double-zero [SH92]. doubling [HM18]. Doubly
[AS95, CW93, Job81a, Mer98b, Sin73, Sin76a, Sin77, Sin81a, SHC02, SJ02,
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doubly-stochastic [Web83]. Drazin [Boa13, Bou13a, Bou18, BZZ11, BSZW13, Cam80, Cam83, CICX09, CIP18, Cve18, DCIW10, DD12, HBM15, KW11, LPT13, Mos15, Rom19, SPM14, SPK15, SKM17, WfMR16, Wei98, mWyD11, Wer87, XSH18, YZZ20, ZZM20, ZCCIW12, ZZC17].

Drazin-inverse [SPM14]. Drew [Hu94, Moh15]. DSS [EBB18]. DSS-weak [EBB18].

Drew [Hu94, Moh15]. DSS [EBB18]. DSS-weak [EBB18].

Duffin [CLX03].

Duffin [CLX03].

dynamical [MW19]. Dynkin [BB14].

efficient [Sma17]. E-optimal [Sma17]. each [BLP12]. Eaton [yT00, Tam92]. Eckart [Nas75]. Edge [BGK00, But10a, CT16, CL17c, DJK08, FHZ17, Fer10a, GM90, KN04, LS09, LPH17, Mer89, NP15, WZ13, YHS13, ZLS11, ZZ18, ZWL15].

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effect [LLF08]. Effective [CMM17]. Effects [GLS16, TJ16]. efficient [AAB17, Sma17]. Egorycev [Min82b]. eigenbases [AC13, Anh15].

eigenvalue-eigenvector [Har95].

Eigenvalues [AHT85, AM85, And04, BWF83, But10a, Cas91, FJM00, FIS06, GKV89, Gro95, HLP03, MS95, Rod02, Ter09, VH95, Wea83, AM13, ADHM19, AS17, AB78, Ane79b, Ash16, AOTR11, BF05, BOvdD91, Ben90, BT07, Brut, CTW15, Cra09, Da 05, DFK19, Das04, DAH19, Deu80, DM79, DJ89b, Edw78, ELG88, EJ91, Esc93, FJ15, FWZ11, FS14, Fer10a, FW13, FS89, GRSW92, GMJW66, GZ90, Gau99, GHK16, Ha89, Her83, HS93b, HUZ17, HW75, Ilm16, Jin17, JKB17, JKS79, JS08, JSW09, Kir91, Kir90, KLKP17, KNX93, KNX95, KK16, LS10, Lei18, LL14a, Liu18b, Mac09, MVPs14, MS89, MH19, MR07, Mer94, Mou13, NS99, Nie10, NTU93, Pal79, PGLM00, SU77, ST15, Si93, Si99, SD20, Ter01, Ter06, Tho74, TL12, XZ19, dLM017, dOMD77].

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Eigenvectors [BD14, AM13, AGM13, BWF83, BDK05, ER81, Fan88, FJS14, Fre76, GF10, HQ14, Lit17, Liu18b, MOvdD90, McD92b, Moh16a, Wea83].

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Element [BB17, DHL95, Fer09, HW75, ZCP16, ZCP17].

Elementary [BC91, CL13, FL16a, Gan76, MW74b, Mcf79a, MP73, MS02, Pie85, Sed04, Aue95, Boa13, DS16, For87, Jam81, Joh81b, KKR12, Kri87, Li87b, MS82b, MK84a, McF79b, Min76, Min82a, Nor80, Oge94].

Elements [Ger04, BBSB90, Boa13, BM17b, BM18b, Bre15, BS07, Cro18, Deu80, DKS09, Hon91, HK10, KM85, LR13, sL19b, LPT13, Lim10, LL18, Lon90, MV91, Mir92, dSP16a, Sch79, Slo13c, Yam18, Zhu19, ZCCIW12, ZCP18].

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[Chu90, WW76, Whi79, Wil83], enumerative [Whi75]. envelope [Chi98].

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Equation [AP74, Che93a, Tia03, AGR91, Bak84, BGdH92, BB19c, Che93b, CK84, CDDK07, Dat80, De 13, DLW13, DWL14, FS19, GPM98, Haj18, Has18, HW13, Ig99, LRR87, Lei83, LZ19a, LQ95, LT10, LR89, MK16, Ned98, NF19, PLPC19, Roh04, Sal14, SWL13, SPK15, Vei83a, Wil83, YL11, YLW15, YZL17, Zha16b].

Equations [DH03, Fia74a, Pas16, CCP17, BC06, BZZ11, BSS12, Cam83, CL80, CW17, CCL10, DSH6, DTS15, DH11, Din00, DELL19, DBG18, EØ15, FHW16, FNM18, FM14, Fin92, Gra80, Har94, HKT15, HW14, HW15, HSMX16, Hla17, HBP18, HM18, JvdD91, JSY14, KP11, KM17, KN81, fLLL +17, LD19, ILZ19, Lip96, Lon76, Mag83, NS99, New80b, Pen15, PM78, Roh91a, SLUG04, Son14, SK15a, SK15b, ST97b, Tia00, Wal75a, WH12, WZH13a, WZH13b, WX19, XSL15, YqS16, YW16, Zha04c, IWY19, BC06].

equienergetic [LS09]. equiponderant [Pif87].

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Ernst [Veis83a]. Erratum [Ano79b, Ano16b, Ano16c, Ano19, JZ95]. Error [Hav88, GLL18, MS16b, Ned98, SWL13, UZ16, WS18]. errors [AM13, CLW15]. Essential [BHC16, JKD16, JLL07, XS18, ABJ16, JR94, Pep19a]. Essentially [Joh73, Joh74a, Joh81b, NST91]. establish [Tia18]. estimable [YC19].


evaluating [Cal95a, TX13]. even [AM13, CQW16, CCLN16, HH14, Jin17, JKB17, SA14]. Eventual [YHCW14]. Every [Slo17, Vas86, Slo18a]. everywhere [CS19]. Evolution [Pan19, CGOT13, ORT15]. Exact [FP17, FHW16, HSMX16, Hua01, MO93, Tia18, XSL15]. exactly [Esc93, HW75]. Examples [Wes90, KCBR17]. exceed [BPW16, Sta10]. exceeding [LZ15b]. excess [DFK19]. Exclusion [SL19a]. Existence [DHS95, Her83, AE10, Fow80, LRR87, MHA17, Nas74, Roh91a, Tie16]. expanding [Che93b, EM15]. expansion [CRY95, Hou91, Krä87, TSYB82]. expansions [RW96, Wil87]. expectations [BG16]. Expected [HL18].
experiments [Con90]. Explicit [BP18, CICX09, DM19, Elo18]. explicitly [KS16]. Exploiting [HWSH13]. exponent [HJP17, HL10, LM95, Liu92]. Exponential [SW81, BV16b, Bel83, Chu84a, How83, Mar84, Tho86b]. exponentials [Cam78, ST91, ST00]. Exponents [SGS05, SG09a, LB99, SG09b]. exposé [Gar73]. exposed [HK16a, Mar13, YH05]. exposition [Mar89]. expressible [Pat83]. Expression [DLW18, Tia11b]. Expressions [BL13, Wei98, FP17, Tia10]. Extended [GRMA13, De75, GHL16, HZG14, Mar78, Mas10]. Extendible [BS07]. Extending [Cir16, Hon19, Sol00]. Extension [Hua90, LS16, Lei83, LLW07, Pat81, SL17, BR01, BD13b, Far94, Fie73, FH89, GJR97, HS75, Hou17, Kua18, LZ17b, LZ12, LZ13, Mil15, ZZY16, Zha15b, dC13]. Extensions [All14, Atk91, Dji16, Gar75a, Hal86, LL14b, SPS15, BWLL12, BM19a, BG83, BCS18, CR18, EL90, Epk89b, Epk89a, Far93a, Hua09, MV75, Mit92, MP13b, TT12, Wer84, Wes96, ZL15, ZN18]. Exterior [Tam98, AGR91, Coa99, Cre99, GV87, Jac79, Liu77]. Extremal [SM94, Lei95a]. extremal [For87, KKR12]. Extremals [YH05]. Extreme [Pat03b, Tho75a, Kan87]. extensions [ELG88].
Epk89a, Far17, GWZ14, GWZ16, Hai88b, Haw05, KC16, Moh16b, MP13b, Nor95, Nor8, Sta14, Sta15b, Wat89. \textbf{figures} [Pok87]. \textbf{Filbert} [KA19].

\textbf{Filiform} [CCGO11, ARH15, BS18a, CLOK13, KKL20, KLO14, LBV13, RH11a, RH11b]. \textbf{Fill} [Dji16]. \textbf{fillings} [AW13]. \textbf{filters} [Chu84b, Pat17]. \textbf{finally} [Uhl13].

\textbf{Finding} [Vo83b, HKT15, Sol14]. \textbf{finest} [Uhl79]. \textbf{Finitary} [DS02b, DW16, BFJ12, BFK18, Khr16]. \textbf{Finite} [BR04, Che95a, Dre93, KLS08, LM03, Tau74, Adu15, AMZ13, BG16, BM12, Bra86, BD13a, CCS16, CC17b, Car88, CDJ13, CP15, CW11b, CZY12, CX12, CG19, Das17, DL92, Dok93, Eli93, ES76b, Fa97, Ful76, GA85, Gol79, Gol07, GWZ14, GWZ16, GX17b, Hol04, KC16, Kes83, KK90, KL15, Lew77, Lin16a, Mat90, MGA17, MN13, Mir09, New80b, Nir11, Pas15, PA94, PM81, PM85, R08a, RS90, RC18, Rom19, Se18, SM19, SZ19, Tan18c, Tho92c, Wal79a, Wat89, YF18].

\textbf{finite-dimensional} [CDJ13, CW11b, CX12, Das17, Gol07, KL15, Nir11, Pas15, Tan18c]. \textbf{finitely} [BS15b, Ber05, HMO11, Hua96, TLC16]. \textbf{finiteness} [FSvW11]. \textbf{First} [RP90, BC06, KN00, Vo83c]. \textbf{Fischer} [BJ93, Dru14, DL14, ES76a, HB83, MHH96, Mar76]. \textbf{Fischer-type} [Dru14].

\textbf{Fishkind} [Dji16]. \textbf{five} [HM76, HM78, MO91]. \textbf{Fixed} [ZX16, Ach77, BOvdD91, BDK+05, Cha84a, DM87, GL11, Hon92, JP07, KS17a, LP07, LT93, TH14, TJ11, Tia17, Wes87]. \textbf{fixed-points} [Hon92]. \textbf{Flag} [HLZ02, Mi15]. \textbf{flagged} [Chu90]. \textbf{Flanders} [GJR97]. \textbf{Flat} [CN08, ERS12, Pat84]. \textbf{flows} [Lee98, LT13]. \textbf{Focal} [GS19]. \textbf{force} [CN14].

\textbf{Foregger} [Cha84b]. \textbf{Form} [Afr73, New94, Arm17, BK17, Bed11, BG82, Cha96, Der83, Ger82, GRMA13, HS83c, HWZ18a, H85, Ikr15b, IH11, INO15, KH05, LV18, LMR94a, Mau78, Nak95, Nor95, PS91, Pro95, Shr90, Uhl79, Ve83a]. \textbf{formal} [BC06, CQH15, MPI17, Reg89, Rys75]. \textbf{formally} [Adk95, BB75]. \textbf{format} [Sta15b]. \textbf{formation} [dC15, dC18]. \textbf{forme} [Rev81]. \textbf{formelles} [BC06]. \textbf{forms} [AY93, Bae84, BT90, Bed10, BX11, BS13, Ch87, CO12, Dra17a, Epk9b, Epk9a, Fe175, Fow80, Fu76, Gal79, GP14, GQ06, HL09, Hor04, HS09, IKR12, KN81, Lee18, Lew96, Lew97, Mar97, MN13, MP13b, O15, Per17, Pie74, Rai19, Rob77b, Sin93, Sol80, SPM14, Sta14, Sta5b, Tau81, TS05, Ven9a, Wag87, Wi19]. \textbf{formula} [AH16b, Bed11, BG90, Ca91, Cla82, CD15, Dji16, Ebe80, FZ11, GR93a, GK18, IW95, Kra87, Lei83, Mit10, Mos15, NST89, Sw14, Tho86b, Wen06]. \textbf{formulae} [BJ94, BT11, HS83c, Rem82, Van95]. \textbf{formulas} [AYC93, BSA17, GRMA13, Rom82, SHQ15, ySpW14, Tia18]. \textbf{Formulation} [CN04]. \textbf{Four} [Kom10, Bre18, Edw78, Gra87, HWZ18a, Ta17, ZM20]. \textbf{four-dimensional} [Edw78, Tal17]. \textbf{Four-term} [Kom10]. \textbf{Fourier} [Dok93, DL92, Elo18, KW89]. \textbf{Fourth} [KMS02, jAS15, GM87a]. \textbf{fourth-order} [jAS15]. \textbf{fraction} [LB19, TSYB82]. \textbf{fraction-free} [LB19]. \textbf{Fractional} [XZS19, Rei77]. \textbf{fractions} [CM85]. \textbf{Frame} [AN18a, Far17, KL13, SA17]. \textbf{Frames} 23
framework [Mej19]. Frattini [GLOT13]. Fredholm [Amm18, BBBS09, MˇS09, MO13, Yu14]. Free [Alp95, Bre18, DMV18, Dre93, Egg95, GB77, Gho19, LB19, PA94, Sla16, Sur98, TW19]. freedom [HS93c]. freely [Sch79]. French [BC06, De94, MM92]. friendly [Koh11]. Frobenius [BOvdD95, BGLS07, Bla77, Fie73, Gil17, GS83, Gut01, HL84, MHH96, Mit10, Nag17, SPS15, Wan79, Zou12]. Fuglede [Ras17]. Full [AB19, CJW19, Har91, Mum86a, AEdF13a, AEdF13b, LaF84, MSS18, Wan17a, ZWM17b]. Fully [Har87, HL10, Liu92]. function [AFM13, BH16, Bou14a, Bou14b, CRY95, CMM20, Cha92, Cha93a, Da 88, EDKA07, FD14, Gam18, GP14, GP74, HSM17, HFS15, How80, Jam81, Kap77, KN04, KK16, Lei95b, Lim00, Lon73, Pam87, Per17, RW84, Sal14, SMM14, SMM16, SK15a, Tia17, Wan79, WZD16]. function-induced [Da 88]. function-valued [FD14]. Functional [AFM13, BH16, Bou14a, Bou14b, CRY95, CMM20, Cha92, Cha93a, Da 88, EDKA07, FD14, Gam18, GP14, GP74, HSM17, HFS15, How80, Jam81, Kap77, KN04, KK16, Lei95b, Lim00, Lon73, Pam87, Per17, RW84, Sal14, SMM14, SMM16, SK15a, Tia17, Wan79, WZD16]. Fundamental [Mac09, Far90]. Further [BHK78, BM17a, Boa19, DW12a, DIF13, GHL10, How83, MRT14, Mis17, WC15, ZCP16, JLL11, Zha15b]. Furuta [Dra13a, FJK98]. fusion [SA17]. future [Abd20].

generalized

generate

generated

Generating

generation

generator

Generators

genetic

genus

Geodesic

Geometric

Geometrical

geometries

Graded

Graded

girth

given

give

glimpse

Global

GM

GMRES

Goldberg

Goldman

Gorenstein

Gersgorin

Gersgorin-type

Generic

Generic

generated

generate

generator

Generators

generated

generate

Generating

Geronimus

Goldman

Goldberg

Goldberg

Gorenstein
LZX19, LPWX10, LXG17, MW16, MW18, Mer95, Mer98b, MA15c, Mum86b, PLH01, PRS03, Ric78, SMM14, SMM16, So99, SL95, zSqSZ16, Ter01, Ter06, Ter09, Tho90, TW17, UZ16, Wan16a, Wan19a, Wat90, XZS19, ZWL15, ZWM17a, ZWM17b, Zhu15].

Graphs

ASZ02, FKP03, HLP01, KP02, LS09, LZ15b, MSZ04, Moh16a, RP90, TB92, Yiz02, Yiz03, tHK17, AAT17, AGM13, ADHM19, AAdFS19, ACMR17, Ano16b, AOTR11, BGK99, BLP12, BP19, Bar08, BCDF09, Bel15, BPS16, BPW16, BB19b, BWV84, BCEM12, BZ00, BSA17, Bru82, BS93, BSG+12, But10b, CP15, CL17c, Che18, CHQ18, CKM18, CG16, CSCH01, DFK19, DP17, DAH19, DGR08, DIF13, FTZ08, FDD14, FS14, FS18a, FYS13, FdF09, Fer10a, Fie90b, FG06, Fri93, FHT14, GL11, Gho19, Gol06, Gol16, GM90, Gro95, GWZ14, GWZ16, GB11, GLS16, GZY18, HRMP95, Hou01, HW08, HHW15, HL18, JLS09, KS19a, KT95, KI98, KMN01, KADM10, KS17a, LV18, Law19, Lee98, LZ11b, LT11, LLP18, LS12, LS13, LL17, LL10b, LZ14a, LZ14b, LDL17, LLF18, Lor00].

Graphs

LHH18, MW15, MH16, MS16a, MGA17, Mer97, MS10c, MTR11, MN04, Mol18, MR19, NS15, NS09, Nat13, NP15, NP09, NG15, Obo16, Ost74, PB17, PP16, Pan17, PGLM00, Pow88, REG07, RY93, Sat11, SS79, Sch95, SdF12, Sei95, Sh15, SHS17, Shr90, Sim95, SS07, SRD19, SM19, Sjo93, Sta10, Ste94a, Ste94b, Ste95, SD20, Tan12, TM19, TWZ16, TW19, VH95, Vo83a, Vo83b, Vo83c, WH11, WZ13, WBZ14, WW15, WT16, WM17, WWS19, WY20, Wil93, Wu05, WL18b, XZL14, YW19, YHS13, YGW15, ZLS11, QZC18, ZG11, ZZZ12, ZZ15, ZY17, ZGO8, ZB13, ZW17a, ZW17b, ZD18, dLMO17, dLP09].

Grassmann

Car88, Car90, Cha79b, DK11, De 08, Die79, Dins15, GP15, Gor83, Wan82, Wes74, dBI10].

Grassmann-embeddings

[De 08].

Grassmannian

MR75, PT10].

Grassmannians

Pas16]. gray [CW93].

greater

Ano16b, BPS16, PGLM00].

Greatest

Bar80].

Green

CDJ13].

Griffin

Ric87a, Ric85].

Grothendieck

PSS15].

Group

BD08, CKN95, DS02b, Pat96, SQM99, tT00, ZBW12, Abd09, AF12, Ano16c, BB06, BAN12, BT06, BLZ10, BSU03, BH15a, Bot79, BZ10, Cha90a, CCS98, CNW18, Chau84a, CW93, DP00, Ell93, Ell95, ES76b, Fal97, Far90, FJK14, FHZ17, FP17, Fri85, GA85, GMV18, HP18, HK13, Hun83, Hun86, JGK97, KW92, Lew77, Lip87, LYW11, LW11b, MW16, MN80, MFS02, MA02, Mar84, MT11, MP16a, Mol18, MS15b, MS16b, Odo83, Ous15b, OS18, Pat89, Put82b, PH97, Rai87, RP04, Sch75, Sch78, SX12, TW17, Wan80, WZL13, Wan16a, Yam18, YQ90, ZWM17a].

groupoids

[RD12].

Groups

Gur97, KME012, LM03, AF11b, Adu15, Ber05, Bri89, BS07, Cha77, Cha79a, CL86a, CL86b, CP15, Den05, Don91, Dre93, Fon92, Fr87, GL16, GT79, GL97, HT92, HOn04, HS17, HW75, Kin91, Koh11, Kra05, Kra06, LLL93, Mah82, MA95, MC80, Mar00, MZ17, MGA17, NP73, Ota13, Pan13, Pat82, Rei75, RC18, SOL13b, Tam97, Til77, Vin06, Wat99, Wat89, dBI10].

growth

CdSS17, FdSV16, GdSV16, IM18, Iop19].

Grüss

DM17].

guage
[HWL92]. GUS [LLV18]. GUS-property [LLV18]. GW [Hai88a, Hai88b]. GW-rootsystems [Hai88a, Hai88b].

H [Cha84b, MP13a, WSL17, Wan77]. H-tensors [WSL17]. H. [Cha83a, For79c, Jia92, Krä87, Mal89, New83]. Haagerup [MW19]. Haar [OS18]. Haagerup [MW19]. Haar [OS18]. Hadamard [AHJ87, Aue98, Bap91, Boz99, Cra91, Dok17, Du10, EM95, EF98, ES76a, FKR93, Fri75, GP74, GN02, GS20, GJM84, GM86, GM87a, HB83, Hey92, H87, Hua08, HXL16, HK17, Joh77a, Joh74b, Joh75a, Joh77b, JM85, JN90a, JN90b, JN00, KLZ10, KMS02, MKS84b, MF92, Mat92, MTR19, Pep19a, Pep19b, SAV01, SZZY18, Wal73, Wal86, WZ97, Zha00, Zha89].

half [DS16]. halfplane [Rod08]. hall [LB99, HL10]. Halmos [Zha95]. Hamburger [ACJ17]. Hamilton [LN16, Paz84, Van95, ZW17b]. Hamilton-connected [ZW17b]. Hamiltonian [CQH15, CHQ18, GZY18, Mer83b, NG15, Nof15, NF19, RY93, WC12, ZW17a].


Hecke [LL93, Mit10]. Height [HS89, AHK92, HS91]. Heinz [Ala16, BM15b, GHT11, KM11, KK13, LS15, Man17, NS18, SYK15, Sab19, SG18].

Heinz-type [Sab19]. Heisenberg [AC19]. Henryk [Mar03]. heptadiagonal [Lit17]. Hereditary [BY19, EGT16, KM98]. Hermite [BFZ07, CS18, Sin93]. Hermitian [Dok93, AM13, AAB17, AY93, AB78, AY74, BT08a, BY76, BL83, BM16, Bur11, CM92, CTW15, De 08, DL92, Dra17a, FdF09, FI89, Gro97, GM86, HR85, HSN99, HV06, HM95, JN80, JR84, JP86, JL91, JS08, Kim91, KN81, LLI16a, LP03, LW17, Loc87, LSX19, Mas10, Mir92, NTU93, NT94, OK07, Pat92, Pat03b, ST73, ST91, Sta15a, Tho92b, TLD12, Tis93, Tra84, WZH13a, WZH13b, Woe97, YLW15, Zha04c].

Herstein [AEV12, IT16]. Hessenberg [KP14a, MR15]. Hiai [HSW19]. hierarchical [BCDF09]. high [SWL13, WG91a]. higher [BdP12, CGW14, CL17b, CGHK08, CLMR09, DTS15, FHL+14, Jon78, KP14b, L87c, LPS09, LPS13, MC86, MP73, Mer78c, MS15b, MS16b, O’R15, Woe08, XW12, Xu18].

higher-dimensional [CL17b]. higher-order [Xu18]. higher-rank [BdP12, CGW14, CGHK08]. high [Sma17, Zha20]. Hilbert [HJ19a, ACMS10, AR15, AB17, AY84, BR04, DKM10, Dra10, Dra11, Dra16, Dra18a, FMX18, HJ19b, JS15, KS16, LLHS18, Mos19, MR10, Roo20, ST19, SA10, Son14, Tau73a, YGC19, ZMCN19]. Hilbert-modules [AB17].

Hilbertian [MSS13]. Hille [JRMFMASS16, MFPS12]. historical [Pri78, TT78]. history [HPS83]. Hitting [Che18, HL18]. Hochschild [Hou17]. Höder [AO97]. Höder-type [AO97]. Hodge [Sam78]. Hoffman [MV91]. hold [MS10a]. Hölder [Dra18a, LPW17, Mer81, Mer78a]. holds
Immanant [CA03, CD98, CD01, Do 96, Gro85, Ito16]. Immanants [Jam92, Pat90, Gam00, MM11, FW07]. Immanants [CA03, CD98, CD01, Do 96, Gro85, Ito16]. Immanants [Jam92, Pat90, Gam00, MM11, FW07]. Immanant [Hey88]. Immanant [Hey88]. Implicit [JSW09]. Imprimitive [MM11, FW07]. imprimitivity [BP92]. improper [Tho75b]. Improved [LW17, ZV19, CPLH17, GB77]. improvement [GLL18]. Improving [Dra19a, GJMW84]. Inaccurate [Ned98]. incidence [Bap97, BL11, BFJ12, BFK18, DW16, HZ11, Khr16, KH05, Mum86b, Rys73, Rys75, Spi94, ZZ15]. including [LL14a]. Inclusion [GZ76, JR93c, JR94, LS04, PT87, Das18, FMX18, Lei18, LST89, MW18, ZL18, Zha19]. increase [Kuz05]. increasing [Cho10]. Indecomposable [LF16, BB15b, HK16a, Har87, HK16b, HL10, Liu92]. Indefinite [BLDP04, BdP12, BdPN14, LZ19b, LMMR01a, LMMR01b, Rod81]. Independence [MW18, LZX19, SD20, Tan18a]. Independences [JX13]. independent [Bra86, Mer78b, Pat83]. Indeterminates [Rys73]. index [BP92, BS95, dAB17, BG16, BF15, CMM17, CM15, EDKA07, GM18, HRT15, Jun88, Kir93, KS17a, LTL93, LLO9, LHbL15, MC82, MM07, MM09, Mer89, Pj90, Raj09, RRR93, RY93, Sha15, WL18a, Ye11, YGW15, dB14a]. indices [AEG19, BFZ07, Bo01, DF95, MZ04]. Induced [CL80, Sch95, CKS19, CL85, Da 88, Gau76, HWL92, JN00, KL95, Lei93a, Lei93b, Mal95, MO94, Ste94b, Tam88]. Inequalities [SH98]. Inequalities [Ala16, And80b, Chol8a, Cho18b, ES73, Fur11, Haw05, HMN91, HLPW17, JL88, JSG94, KS19b, Lee91, Lei74, Li91, MS74, Pat82, Pep19a, Pep19b, SAV01, AC78, AAP82, AkK17, AW07, AHK19, AdFK15, And80a, AO97, Anj17, AA12, BM15a, BM19a, BDK09, BP98b, BCK15, BKL97, Bol12, BHK10, Bum91, CLL16, CM17a, DM17, DV18, DKM10, Dra10, Dra16, Dra18a, DL14, Du10, Feb92, FH15b, FH15a, FJK98, FSY16, FMS19, GA18b, GHT11, Gyr98, Gyi78, Han17, Han19, HB83, Hia94, HSW19, Hla17, HOT15, How80, Hue98, HXL16, JM85, JN14b, Kan87, KM85, Kan94, KMS18, Kim91, KS07, KM11, KK13, KT83, KW89, Lek91, LM96, LP91, LLZ13, LS15, Lim00, Man17, MGG18, Mos12, Nie07, RAI19, RK94, SYK15, Sab19, Sed11, SG18, Sha18, SA10, SG96, ST86]. inequalities [SZZY18, Tho78, Tiao5b, Tra84, WZ97, WZ14, YLS10, YLC19b, YSK15, ZW19]. Inequality [Pat81, AFTG19, Ala18, AB78, AHJ87, Aud15, BM15a, BM15b, Bak16, Bap88, Bap91, Dia79, Dra11, Dra13a, Dra17a, Dra19a, Dra19b, Dru14, ES76a, Fri75, FL16b, FS18b, GJMW84, Gro85, GM87a, Gum15, Ha88, Hey92, HKO16, HM95, JRMFMASS16, Joh77a, JN90b, Joh90, JZ95, Ks14b, Kua18, Li87b, FlLyP15, LW12, LZ17b, LPW17, Lon83, Lon97, Mar76, MS88, MV91, Mer94, Mia9b, MP94, MP95, MP96, MGH19, MR10, MFPS12, NS18, NASR19, Oiko91, PSA14, Pat96, Pat09, Pep11, Rea96, Tho89, Tho98, VM18, Wan79, Wim85, YGC19, zY11, YLC19a, YqS16, Zha01b, ZZZ12]. Inertia [GS06, GA18a, JR84, LRT91, AL78, BS97, CM92, CFSGL18, JP86, Loe92, MF92]. inertia-preserving [BS97]. Inertially [GS01]. Inertias [KMOV07, JL91, KOvDD09, TL12]. infimum [Dj16]. Infinite [DS02b, GK02, KK75, KMS02, WC16, AELPM18, All14, Bar07, BB14,
BH15a, Cas91, CP10, Go16, HLZ18, LF15, Liv94, Nag17, Nag14, Pop14, Rai87, RD12, Siv06a, Siv06b, Slo13a, Slo14b, Slo15a, Slo15b, Slo16b, Slo17, Slo18a, Slo18b, Sol06, WC12]. Infinite-dimensional [KK75, AELPM18, Bar07, BB14, LF15, Liv94, WC12]. infinity [DM87, HM78, MZ04]. inflations [GW98a]. influence [Sch77]. Influences [CP16]. Information [JS91, BL80, DHKSH08, FHLS13, Fur11, ShDHG08].

Inheritance [BS17e, BS18b, Pan17]. Inner [BLdPS04, Tan16, Dra19a, Dra19b, FD14, LMR94b, LMMR01a, LMMR01b, Pat08, TZ19a, Tan13b, Uh82]. Input [Har94]. integer [BT07, BM18c, BM19b, GRMA13, LSOvdD95]. integers [New85a]. Integral [Lee8, LYZW12, Yiz02, Yiz03, BHKT8, BSG^+12, CQ18, CL17a, GHL16, HK79, HK80, Hsi78, HHW15, Kir04, KADM10, Kri87, Kut19, Luo19, Mah82, MTR11, New74, Tau81, Tho86a, Tho86c, Tho87a, Tho88, Vas86, Wei93, YW09, cc85].

integrality [MM05]. integrals [BC06, Sim83]. interesting [Bru85]. Interlacing [Mar90, CM84, GT11, ISCS11, LM98, LPS12, NU94]. intermediate [WOY06]. Internal [BC83]. Interpolated [SYK15, YSK15]. Interpolating [AkK17, CJ12, KK16]. Interpolation [JvdD88, LP11, Ala18, AG15, BCR91, CH12, DMV18, DWL13, ZZ00]. interpretation [ER90, RS18]. Intersection [JNBR93, AN14, BCS14, HS83c, Tho75b]. interval [Aze99, Har96, Hla17, KSMB16, KP11, RR95, RK94, Roh06, Ska17, XLL15].

Intervals [AG16]. intraclass [Mai11]. intransitive [CL86a]. Introduction [AL94, Row95, KP14b, Pie92b, Tra84]. inv [Gar79]. Invariance [MF77, SSZ93, BK83, Bea78, Gro96, Hem93, LT88a, LNY16, Man91, Min76, XQ15]. Invariant [BR04, De 90, Dom14, Ger74, MZ04, NT86, Pat77, Sil98, Tho87a, AE10, Aze99, Bae84, BG86, Ben78, CW81, CDJ13, CLW15, CLR81, Fri90a, Heo16, HS87, HJ87, HMN91, JS94, JP15b, JL88, JN92, KMEO12, LT87, LT89a, LT89b, LT90a, LT90c, Li91, LT92c, LT93, LLW07, MKS84b, Mar90, Md92a, MRR09, NS85, Pok87, RRR93, Ras19, Rod81, Sel81, Sil88a, Sil88c, SS96, Sav01, Sin73, Sol80, Ste82, Wan17b, XFG14, Zab89, Zab90].

Invariants [Gur97, Man78, PW78, ARH15, AMZ13, BZ99, Bed10, Bed11, BX11, BcdHP10, BB17c, CNW18, CN15, Dok09, Dom00, Dre93, Fog73, GA85, GHV99, GL77, KP92, Lop11a, Lop11b, Lop18, M171, RH11b, Sch75, Sch78, Tho88, Wat83]. Inventory [Mer83a]. Inverse [BS11, CLX03, HS16, LLS14, MNN^+98, Min82a, Mir18, ZH271, AH92, BT10, Bap97, BCN05, BP19, BAN12, BLZ11, BB17b, BS17e, Boa19, Bou18, BT98, BZZ10, BZZ11, BSZW13, CC17a, Cam80, Cam83, Che95a, CS19, Cro18, CICX09, CIN15, DMV18, Dec74, DD10, DCIW10, DLW18, DS16, ER90, FS18a, FdF09, Gar85, Gro99, HP18, HM78, HXL16, HPV84, HPV88, JL93, KMRS89, KW11, KR07, Ky11, LCZW19, LP16, LXY11, LYZW12, LPH17, LL78, MP16a, MS18, MZ15, MMG15, Mol18, MS15a, Mos15, Mos19, MAM15, P190, PM14, PH97, Reu96, Rom19, Siv06b, Sni05, SPM14, SPK15, SKPC15, SKM17, SZBW16, Tia05a, WL15, WIMR16, WLL19, Wei98, mWyD11, XQ16b, Xu93, XSH18, YZ14,YW05, YW09, ZFSX17, ZMG20,
Inverses

[BP74, GN02, MR15, Rao81, Zha04b, Bl95, BHK78, BM17a, BT06, BL13, BGV11, BT15, BGZW16, CKN95, CIM19, Dra13b, Dra17b, Dra18b, FLT20, GJK97, HK79, HK80, HM76, HM77, JK97, KS15, KM14, KCICV18, KR14, Kyrt08, LPT13, Li11, LC18a, LW11b, LW08, MR13, MP13a, Mia93b, MS12, Nab98, PP16, Rad16, Siv06a, Smi74, Sol14, Sta15a, SKP18, SPS15, Tia01, TC04, TS05, TT06, Tia10, Tia18, VM07, WC15, XCC99, XQZ13, XCB18, YZZ20, YLS10, Zar01, ZH10, Zhu18, ZP19, Zhu19].

Inversion

[JTW17, Elo18, FZ11, JS91, Jon78, lLZjZ19, Tis93, Wer86].

Invertibility

[BLR12, Den14, FSvW11, IK18, KR02, KR03, SR17, Wat83, Zel75, Aue95, Aue98, BLZ10, Bou13a, BMGMC15, CQH15, CIP18, Cve18, DW12a, DD12, HC14, LD17, MS09, PA10, SA17, TCI13, ZZ16, ZCCIW12].

Invertible

[BLSV12, Gur97, GL97, BS ¨U¨O13, Che07, Fra13, Gw08, GHL16, HM15, IlpW16, LWB11b, Siv06a, Siv06b, Tan13a, Tan18b, XPY16, XZ18, ZZC17].

Inverting

[KH13, Fdl18].

Involutions

[AP11a, AF11b, AF12, BCI13, BB ¨U¨O13, Che07, Fra13, Gow80, GHL16, HBM15, lLpW16, LWB11b, Siv06a, Siv06b, Tan13a, Tan18b, XPY16, XZ18, ZZC17].

Involving

[DH91].

Irreducibility

[MM05, Mer75, Mur89].

Irreducible

[GT14, Lla96, Min74b, Abd09, BCS14, Bru79a, Coh88, DF87, DLL19, Els78, Fon89, Fri12, Hol04, Hua90, Hun83, Hun86, JP15b, KSMB16, Kra05, LZ09, Li95, Min74a, Pat93, Pul75, Roh06, SZWB16, TIA92, IWW15, YSY17].

irregular

[SHS17].

Isolated

[BS08, SRW07].

Isometric

[MP18, MP19].

Isometries

[DLR91, KL95, L ¨S02, MN12, Dok90, GWW16, HS3b, HFS15, HF18, IK19, LT88d, Mol15].

isometry

[CP16].

Isomorph

[Whi74].

Isomorphisms

[ARH15, Oge94, Cve95, Dix79, RH11b].

Isomorphisms

[BDV12, BD12, BDV16, BFK18, DPV13, IT16, LWXF15, Pan15, Wan16d, XWF15].

isospectral

[Mer97].

isotropic

[JMS19].

Issue

[KL17, LT09].

Itô

[AM15].

Iteration

[Fan83, CH06, LZ16, TT15, Xu18, ZV19].

iterations

[Mis17].

Iterative

[CC17a, DH86, DCLW19, WX19, AAB17, ALP94, BS17d, CW20, Gib89, LC18b, PLPC19, YZH19].

Ito

[HZG14].

Iwahori

[Mit10].

J

[New83].

J.

[Mer79b].

Jacobi

[All14, CKN95, GPM14, Mir18].

Jacobian

[Wri93, Yu96].

Jacobians

[Neu83].

Jacobson

[YZZ20].

James

[CP13].

James-orthogonality

[CP13].

Jensen

[Anj17, BHK10].

Johnson

[Ano79b, Moh15, Hu94, Mol18, Rub89].

join

[MH12].

Joint

[GR93c, MS15b, Ch18, DM14, JX13, Pep19a].

Jordan

[MC17, Slo18a, AAB15, AEV12, AH10, An18b, AGAG96, Ben05, Ben16, BDW16, Ber16, BN88, BC94, BFK18, BM16, BMGMC15, CM19, CL17b, CMDE19, DPV13, DW12b, FKK11, FJ09, GT11, Gra11, HL09, HS91, 31
HLH18, HZXL15, IT16, Kay17, KPS19, Khr16, LWZ15, Lee16, LZ11a, LB11, LPS13, LF13, MJ07, Mol15, Nor95, Nor08, Pas15, PT10, PS91, QZ16, RoI99, ST15, Slo17, TRD16, WHX08, Wan18, Yua98, Zha16a, ZW14. Jordan* [LLF14]. Jordan-multiplicative [AGAG96].


LW08, LW10, Pen15, Wan15, Wan17b, XQZ13, XQ16b, Zhu15.

least-squares [AAB17]. leave [Ben78, Sin73]. leaving [LT93]. Lefschetz [Sam78]. Left [CQH15, EKO14, HBM15, Kre16, Tho86a, DS16, Dok73, GMZ17, LCL14, LGB17, MVP14, MRD15]. Left-star [Kre16, MRD15].

left-symmetric [LGB17]. Legacy [Mer17]. Leibniz
[ARH15, AM15, BCS14, CCGO11, COK19, CLOK13, CRK18, CR18, GLOT13, KPPV18, KLO14, KLO19, Mil15, RH11a, RH11b]. lemma [CGMR11, YZZ20, Bar07, Bar12]. length [BP90, CCGO11, CW18, El93, Wes80].

Leonard
[Ahn11, CGH15, HZG14, KHG15, KC16, WH17]. Leslie [Har96]. less
[Bot87, Lim90a, Sin95, dB16]. Letter
[Bha91, Cha93b, Ram02, Roh13, Sch15, dS19a]. letters [Min74c]. level

lexicographic [AAdFS19]. Li [FS15]. Lie
[AC19, AH20, AH16b, BL10, BWLL12, BD12, BW15, BGLZ18, Bas17, Bas19, BV92, BBM15, Ben07, Ben15, BCS14, BCS18, BM14, BS18a, BB14, BT07, Bre14, CR15, CGNT15, CCGO11, CV94, CC19, CW11b, CX12, CW12, CWSZ17, Che03a, Chu84a, CPT15, DH18, D010, DR18, DGB18, FD17, Far93b, FZ17, GS95, Gra10, HH16, Hou17, JZ12, JQS13, JZ12, KK75, Lee94, LCL13, LW11a, LF13, LCCI9, LWXF15, LL10a, LL11, LZ12, LZ13, Liu16a, Liu19, LBV13, Luk74, MC17, MT11, MHA17, Mou04, Nir11, NJP19, OWXO9, QH11, Qi15, Rom89, SV14, STME10, SX15, Shi18, Sp10, ST99, ST97b, TKT19, Tan18c, WYO06, WOW09, WY11, WL16a, Wan16c, WL16b, WJ16, Wan16d, WX12, XWF15, YD14, YZ13, YWO07, Zha15c, ZL15, vWZ19].

Lie* [Liu18a]. Lie*-automorphisms [Liu18a]. Lie-theoretic [Mou04].

Lie-type [MHA17]. Lieb [Pat96]. Ligh [KMH19]. like
[BD14, KM17, LM19, Tan12, Zha97]. Limit
[Ger86, Cam78, Har84b, Kat75, LYZ12, Rei83, Tos79]. Limiting
[GW08, HJ17, HT91b, WB14, ZB13]. Lineability [BMP10]. linéaires
[Del94]. Linear [AS17, ASZ02, Bea78, BP89, BP90, BP92, BL93a, BL01, BBBS09, Bot79, Bot87, CL83, CL92, CL95, CLN13, CLMR09, Coo96, DGJ+16, FHLS13, FHL+14, HJ19a, Ho75, Hua96, HW75, HKS94, JS94, JS84, Jam81, JP86, JLL88, JLR+92, KP92, LL90, LL16a, Lau81, Lev74, Li87c, LT88c, LT88b, LT90b, LT90a, LT90c, LT93, LM93, LP93, LMR94b, LSS01, LZ01, LM03, LS04, Lim76a, Lim79a, Lim82, Lim90a, Lim90b, Lim97, Lim01, Lo93a, Lo93b, Lor14, Luk74, MI71, MF79, MC80, MS09, Min77, MS19, Mol09, Prz92, RK94, Sin82a, Slo18b, Slo18b, Slo18b, SA14, SB03, Tom19, Wat82, Wes74, Wh74, Zha05, ZXF15, ZW14, Abd09, AC13, Aln15, AFM13, Am11, Am18, Ano92g, AW83, BB06, Bar79, BS16, BS17c, GBDH92, BB19c, BT08b, BLZ10, BR10, Ben78, BCM18, Bou18]. linear
[BZZ10, BMM16, BP96, BSS12, CKS19, Cam83, CW90, CW20, CL91, CC19, CS10, CKLP13, Che93b, CW12, CWSZ17, CSY18, CL05, CKL16, Chu84b, CPT15, CF15, DM17, DPP17, DH86, Def94, Den14, DLQ18, Din00,
linear

linear-algebraic

linearisations

linearizations

Linearizing

Linearly

Littlewood

Lipschitz

List

Listings

Literature

Little

Look

Lorentz

Lorentzian

Lorentz-positive

Lower

LU

LU-factorization

Lusztig

Lyapunov

Ma/M/c

made

Magic

Magnitude

Main

Majorization

M

Maj
BB96, BB17c, Bou13a, Boz98a, Boz98b, Boz99, BT15, Bra86, BC17, BD13a, BCKP10, Bru85, BS08, BD13b, BM18c, BM19b, Bru79b, BK87, BZZ10, BSZW13, BGZW16, BM16, Bur95, But10b, CC17a, CM92, Cal97, Cal99, CQ18, CP81, CCS16, CGY13, CK17, Cao19, CP97, CFSL18, CdM15, CL92].\n
matrices
[CCS98, Cha83b, Cha84a, Cha88, CGW14, Che92, CKN95, Che07, CW10, CW11a, CZY12, CP16, CW16, CTW15, CT96, CL14, Che17, CL05, CNP05, CNP06, CN08, CLNT17, CLN13, CKL16, CL01, CKP09, CJW19, Coe96, CR77, Cos14, Cra91, CL74, CGH14, CLHL17, CIP18, Cve18, DPP17, De 90, De 75, Dec95, DTS14, DD10, DCIW10, DHS95, Din15a, Do 96, Dol13, DL92, Dok93, Dol07, Dom14, DGJ+16, DJL94, Dru15, DfF15, DN18, DiF97, ERS12, ELG88, EL90, Els78, ER81, EJD88, ES98a, ES98b, ES00, ES76a, EV77, EM73, Est80, FL16a, Fa07, FV97, FJM00, FX12, Fan73, Fan92, FL18, FW07, Far17, FJ15, FWZ11, Fen10, FdF09, Fer10b, FS83, Fie90b, FP17, Fit94, Fla75, For79a, For79b, FS86, For88, For79d, Fso05a, FHL+14, Fra13].

matrices
[Fra17, Fre76, FH89, FM78, Fri84, FLS88, Fri12, FL16b, FS15, FSY16, FIS06, FS89, Gai77, GLL18, GPM98, GA18a, Gar85, GWW15, Geh15, GJR97, GKO1, Ger6, GPM14, GV95, Gib76, GZ99, Gil14, Gil17, GKL82, GZ76, GT75, Gm87, Gol92, GH98, GS20, GR10, GR93c, Gro97, Gro99, GLP92, GP96, Gro17, GHT11, GHK16, GHL16, Gur79, Gur92, Gyi78, Ha88, HC14, Haj18, HK79, Hal91, HJP17, HZ11, Har87, Har78b, HS83b, HS83c, HMD13, HINS10, Hau12, HDJT97, HWZ18a, HR85, Her83, HS88, HS93b, HNS99, HS12, Hii17, Hii18, HLS18, HKO16, Hoi85, Hii85, Hon9, HJ87, HZ12, HM76, HM77, HM78, HLL18, Hsi78, HLM15, HHI4, Hua01, HW06, Hua08, Hua10, HL11, HKL17, Hwa85, Hwa91, HK92, HS93c, HK94, HM95, HKS95, Ibr00].

matrices [IS15, IS16, Ito16, JGK79, JGS90, JS96, JR93b, JM13, JTW17, JK10, Joh73, Joh74a, Joh77a, Joh74b, Joh77b, Joh81b, Joh82b, JR84, JP86, JP87, JSE90, JKS94, JWP98, JS99, JR09, JN14b, JUT00, KM19, KS16, Kan87, KS12, KS15, KS14a, KMS16, KLZ10, KP14a, Kim97, KS09, Kim13, Kim91, Kir91, KP92, KS93, Kir93, Kir04, Kir09, Kir11, KM11, KS19b, KS76, KS82, KKL18, KL19, Kob60, KNX93, KH05, KT19, KE82, Koz17, KS83, KS84, KM98, KS17b, Kuz05, LR17, La78, La83, LL16a, sL19b, Lau81, Law19, Lee91, Lee18, Lei95a, Lei93c, Lew77, Lew97, Li86, Li87a, Li87c, LT88c, LT88d, LST89, LT90b, LT90a, LT93, LM93, Li95, LSovD95, LEH96, Li98, LSS01, LPS08, LLL13, LLL14a, LLL15, LfLpy15, LZ16, LLL16, LML17, LM95, LLL09, LLPW16, Lim79a, LT14].

matrices [Lim15, LT12b, LW12, LZ17a, LMMR01a, LMMR01b, Lit17, Liu92, LB99, LWY11, LWB11a, LWB11b, LL78, Loe87, Loe01, Lon80, Lon81, Lon88, LSZ86, LM89, Lon90, LR89, Lop11b, Lop18, LSX19, MM11, MVP14, Mag83, MN80, Mah82, MM90, Mal91, Mal94, MRT16, Man92, MH96, MZ04, MS79, MK88a, MS89, MR13, MR15, MH19, MSZ04, MR07, Mas10, MH12, MP90, MC85, MdD92b, MF79b, MS10b, Mee80, MS18, MRRM09, MRRM16, Meh84, MO93, Mel12, MV91, Mer94, Mer98b, Mes90, Mes13, Mia93a,
matrices

[NS93, New74, New75, NT86, Nie14, Nie10, Nec15, Non73, NP91, NTU93, OP13, Onl14, OK07, Ore19, Pat92, dSP12, dSP16a, dSP17, PU015, Pet09, Pet00, Plu80, Pi87, Pi87, Pok87, PT87, Pop14, Pul75, QK92, RRR93, Rau18, Rea96, RW96, RR95, Rh87, Rh90, RS74, Ric74, Ric87b, RD12, Rob75, Rod97, Roh91b, Roo20, Rys73, ST94, SS79, SU77, Sme97, Sen83, SM94, SMBB+15, Sha91, SG96, Shi15b, Si188a, Si188c, Si188b, Si189, Si193, Si95, Si98, Si99, SP87, Sin90, SAV01, Sin73, Sin76a, Sin77, Sin80, Sin82a, Sin82b, Sin84a, Sin93, Sk17, Slo13a, Slo14b, Slo15b, Slo15a, Slo16a, Slo16b, Smi05, Smi76, Smi94, SH98, ST91, ST94, Sol06, Sol14, Sou83, Sou03, Sou86, Sou17, Sta15a, Sul08, SH92, SWZB15, SK15a, SK15b].

matrices

[SvW14, TD14, Tal17, Tan86, Tam94, TT12, TZ19a, Tan10, TLL11, Tan13a, Tan14, TLC16, Tan18b, TG09, Tan81, Tho74, Tho75a, Tho75b, Tho86a, Tho86c, Tho87a, Tho88, Tia01, Tia05, Tia05a, Tia05b, TTO6, Tia11a, Tia11c, TLI2, TJ16, Tia18, T17, Til98, Til98, Tis93, Ton87, Tra90, Tre85, Tre86, Tre87, TGW14, TM0vdD93, UO15, UP16, Uhl79, Uhl14, Vas87, VM07, Wad90, Wal76, Wal75b, Wal86, Wan76, Wan79, Wan80, WZ95, WOY06, WZC11, WYM11, WZL13, IWP14, IWW15, Wan16a, WC16, Wan17a, WS18, WL16a, WLL19, Wan05, Wat84b, Wat85a, Wat85b, Wat77, Wat82, Weh83, Wes87, Wim86, Woe93, WM84, Wu09, XCC99, XQZ13, Xu93, XXZ11, XL11, Xu15, XYP16, XL17, XZ18, YLS10, YLC19a, YLC19b, You80, YBCW96, Yu96, YW16, YZH91, Z8, Zel85, Zel75, Zha00, Zha01a, Zha89, ZS05].

matrices

[Zha05, Zha14a, ZZZ16, ZFSX17, ZMG20, Zha20, ZWW10, ZHZ11, Zha14b, ZXF15, Zho16, ZBW12, ZW14, Zim89, Zou12, cc85, dF13, dPN81, vBW95, vR11, KNX95].

matrices-nonsingularity

[ES98b].

Matricial

[Far93a, MRS10, CH12].

matrices

[DDJ76, HK80, NU94].

Matrix

[AMP02, AP04, Ar73, AP74, And04, jAS15, AW13, AM90, BD94, Bm02, BC94, Che3a, Dat80, Der16, DS02a, DS04, EMS02, Fan92, Fla74a, Foa79, FS18b, Gal03, Gil12, GMR81, Har95, JT03, Lh91, LT92d, LM96, LP03, Mir81, OW02, Pat03a, PT02, PY82, Rmm97, Sin81a, Tho78, Tia02, Tia03, Tur02, Wei98, Zha04b, Zha04a, Abd20, AFVL00, Adh13, AS11a, AM13, AN14, Ake83, AAB15, AdFK15, AG15, Ano79b, Ano79c, AY95, Aud15, BY19, BK83, Bak84, BB06, BCR91, B75, BY76, Bap97, BG99, BK00, BKP01, BS11, BR14, BW83, Bas17, BC82, Bee83a, Bee83b, Bee84, BC85, BD88, BS17d, BGDH92, Bel83, Ben90, Ben11, Ben18, BT08b, BDV19, BT07, Bot94, Bou13b, Bou14a, Bou14b, BHK10, Bz86, BGS14, B91, BF15, BS18d].

matrix

[ZZZ10, Bm91, BS12, Caf13, Cal95a, Cam78, CKP16, CL80, CJ79, Cav10, Che92, CH12, CLIW15, CS18, Che91, CCL10, CT09, CN05, CN70, CN14, CM85, Cho10, Coh88, Con90, CC98, CCL18, CIC09, CIP17, DPW13, DH86, DW92, Dec74, DTS15, DH11, Der18, Den80, DHT94, DS09, Dok73, Dok90, Dok09, DB14b, Dom00, DLL19, DJ89b, DWL13, DWL14, DS18].
DS19b, EM95, EF98, ER90, EOvdD09a, EGT16, EOvdD09b, EB17, FZ11, FTZ08, FHW16, FNW18, Fei79, Fie81, FLR85, FSvW11, FdM18, FKKSI11, Fri97, FH15b, FSY16, GAGM18, GHL10, Gil93, GKLr82, GLR82, GRSW92, Gol99, Gon17, GB90, Gow80, Gra80, GVH99, Gre99, GPK94, Gro96, GMJM86, GMT14, GT79, Gus81, GHT16, Ha98, HK16a, Haj18, HL09, HZ11, Har81a, Har94, Har96, HP90a, HP90b, Has18.  

matrix 

[HKT15, Hav88, HBI73, HW13, HW14, HW15, HS81, HS88, HS89, HS91, Hia94, HS87, HMN91, HBP18, HS16, How83, HT10, HXL16, HLPW17, HM18, HW8H13, Hul81, HP84, HPV84, Ikr15a, IH11, Iov15, IO15, JP15a, JKD16, Jok77a, JKS79, JovdD84, JovdD85, JD99, JS08, JST18, KMRS89, KS16, KM85, Kar83, Kat75, KM17, KFR17, KFR20, KL12, KA19, KOvdD09, KS07, KLPK17, Kov77, Kra05, KMS07, KL95, KLZ96, KK16, Kur04, Kyr08, Ldf80, Lfo84, LRR87, Lás91, LZ09, Lee15, LeL93a, LRT91, LR96, Lew96, Li84, LTT88a, LT91, LP93, LP00, LLS10, LZ11b, fLLyP15, fLLyP17, LPWX10, LWWX15, LW11b, LC18b, LQ95, Lip96, Lip98, Lip87, LW08, LT10, LTT11, Liv94, LMR00, Lop11a, MJ07, MS10a, MDW11, MEW16, Mag83, Mai11, MS83, MSO83, MRT14, MKS84b, Mar89.  

Matrix 

[MR97, MP98, MS95, Mat90, Mat92, MP87b, McD92a, MS81, Mel13b, Mel18, Mel19, MK16, Mer74, Mer79a, Mer82, Mer83a, Mer89, Mol18, MP94, MP95, Moo95, NNT95, Ned98, Neu83, NP80, Neu81, NP73, New76b, New78, NoL15, NT94, Obl12, OvdD77, Pal79, Pat82, Pdo3b, Paz84, dSP11, Pea84, Pen15, PLPC19, PW78, PMS1, PMS5, Pre85, PV00, PH97, QD85, RS07, RS18, RR91, RS10, RP04, Rof06, RF19b, RF19a, Ruo98, Rys75, Sal79, Sal12, Sal14, SA07, SQM99, SMSM14, Sch77, ST80, SLUG04, Shl15a, sSpW17, Siv06a, Siv06b, Sio14a, Sio17, Sio18a, ST96, ST00, SBMP16, Sta15a, Ste94a, Ste94b, SX12, TD16, TD19, TZ06, TZ17, Tau73a, Tau81, TB01, Tho87b, Tho89, Tho92b, Tia00, TC04, TS05, Tia10, Tia11b, Tia17, Tik98, TT18.  

Matrix-analog [Foa79].  

Matrix-subadditive [Tik98].  

Matrix-tree [Mer89].  

Matrix-valued [Tuk02, Gil93, Tia17].  

Matrix-weighted [SMM14].  

Matrizen [SU77].  

matroid [Dia90a, Kas85, Mum86a, Mum86b, Mum86c].  

matroids [BVW84, Mum86a, Mum86c].  

Max [SK03, BPS00, BSS12, ISC11, KS15, LL14b, Mer94, Moh15, Shi16, Tia18, IWpW14, IWY19, ZBW16].  

max-algebra [BS12].  

max-cuts [Mer94].  

max-min [Moh15, Shi16].  

max-plus [IWpW14].  

max-relative [ZBW16].  

Maxima [YGW15].  

Maximal [Bal79b, INO15, Yiz03, GF10, HKS94, HKS95, JLL07, KMN01, KS17a, Oml14, UZ16, WL16a, Wes80].  

Maximality [Fri85].  

maximally [Ano16c, Ous15b].  

maximization [DJ89a].  

Maximizing [CL14, FKP03, FZ08, LP07, Pat07, WH11, GMJM86, Hu94, Sha94].  

Maximum
\[\text{Mazur [JVMCPR19].} \text{ Mean [MS81, Al816, BP12, CW10, Dra18a, EJD88, FP17, FS15, FS18b, LS17, Pep19a, Pep19b, Wim85, vBW95]. means [FH15b, FSY16, GHT11, HSW19, KMS18, KK1, PSMA16, Rai14a, Rai14b, Rai19, ST94, Tra84, Web83]. Measurable [Sim83, Han17].}\]

\[\text{Mean [MS81, Al16, BP12, CW10, Dra18a, EJD88, FP17, FS15, FS18b, LS17, Pep19a, Pep19b, Wim85, vBW95]. means [FH15b, FSY16, GHT11, HSW19, KMS18, KK1, PSMA16, Rai14a, Rai14b, Rai19, ST94, Tra84, Web83]. Measurable [Sim83, Han17].}\]

\[\text{Mazur [JVMCPR19].} \text{ Mean [MS81, Al816, BP12, CW10, Dra18a, EJD88, FP17, FS15, FS18b, LS17, Pep19a, Pep19b, Wim85, vBW95]. means [FH15b, FSY16, GHT11, HSW19, KMS18, KK1, PSMA16, Rai14a, Rai14b, Rai19, ST94, Tra84, Web83]. Measurable [Sim83, Han17].}\]

\[\text{Mean [MS81, Al16, BP12, CW10, Dra18a, EJD88, FP17, FS15, FS18b, LS17, Pep19a, Pep19b, Wim85, vBW95]. means [FH15b, FSY16, GHT11, HSW19, KMS18, KK1, PSMA16, Rai14a, Rai14b, Rai19, ST94, Tra84, Web83]. Measurable [Sim83, Han17].}\]

\[\text{Mean [MS81, Al16, BP12, CW10, Dra18a, EJD88, FP17, FS15, FS18b, LS17, Pep19a, Pep19b, Wim85, vBW95]. means [FH15b, FSY16, GHT11, HSW19, KMS18, KK1, PSMA16, Rai14a, Rai14b, Rai19, ST94, Tra84, Web83]. Measurable [Sim83, Han17].}\]

\[\text{Mean [MS81, Al16, BP12, CW10, Dra18a, EJD88, FP17, FS15, FS18b, LS17, Pep19a, Pep19b, Wim85, vBW95]. means [FH15b, FSY16, GHT11, HSW19, KMS18, KK1, PSMA16, Rai14a, Rai14b, Rai19, ST94, Tra84, Web83]. Measurable [Sim83, Han17].}\]
Monotonicity [AAJ12b, FM78, Gol92, BJ93, BS17e, ES76a, JGS90, LRR87, Mal91, Pat96, Sin80, VM07]. monotonicity [Wer87].

Montgomery [DF82]. Moody [Mar00]. Moon [LN16]. Moore [Bap97, Boa19, Bom02, BGZW16, CFGM06, DD10, DW12a, DLW18, Fie95, Gro99, HPV84, HPV88, JGK79, KMRS89, KR07, Kyr11, Li11, MZ15, PA10, Siv06b, SZBW16, SPS15, TC04, Tia05a, YZ14, Zha04b, ZFSX17].

Moore-type [CFG06]. Morita [BDvW12]. morphism [LCZW19].

Morphisms [Har84a]. Moser [LN16].

Most [AVVA18, BLP12, LZ15b, TWZ16, YHS13, tHK17]. Moyls [ST80].

Multicommutators [MR08]. multidimensional [CLL14, Kru19, Min80a].
multiform [Poo94]. multigraphs [BM98]. multilevel [dBS00]. Multilinear [Ano79b, Ano16b, Ano16c, HFS15, HF18, MT84, Slo18a, Slo18b, TT78, Whi74, Whi75, Whi79, ADRP14, AADD18, AP17, BT17, Cam14, De 82b, DV19, Heo16, HJ19a, HJ19b, Hor04, How80, Lim00, Oge94, Pam87, Pat83, Pat17, PR12, PSS15, Pie74, RSPT17, SDL10, WLB19, Wan19c, WW01, Wilt11].

Multilinearity [Fon92, DF87, Fon89, LC83].
multipartite [KS93]. Multiple [HH14, AAP19, Cam14, HZXL15, JS08, JSW09, LW08, NASR19, Rad16, RSPT17, ZX10]. multiples [GKL18, Tho86a]. Multiplication [Bre12b, De 75, MO94, Wat85a].

Multiplicative [BD12, BC82, Che03b, Ger74, LR04, QZ16, AGAG96, DLW18, Est80, H117, MID17, MZ15, Foor17, QH11, YZ14, ZFSX17].

Multiplicativity [New94, Pro95]. multiplicities [Da 05, GMV18, Uhl99]. multiplicity [JD99, LJS09, LJDLS12, JST18, LHH18, Yu14].
multipliers [JK10, Liv94, Mej19, SA17]. multisplittings [ZV19].
multivalued [AFM13, Amm18].
multivariable [MMR07]. Multivariate [Par78, HSW19, SK15b, ZL17].
multiwavelet [CJ12].

Negative [Ano79b, BGGS17, ELG88, GR14, GP96, JKS79, Koz17, Lai18, RST18, RST4, Sou98, Shi15a, Smi74]. negativity [Aud15, HS12].
near [CSCH01, Sin81b].

Necessary [LD19]. Necessary [Gue17, HB83, PH03, SQ15, AW07, Wan82]. negative [Ano79b, BGG017, ELG88, GR14, GP96, JKS79, Koz17, Koz17, Lai18, RST18, RST4, Sou98, Shi15a, Smi74]. negativity [Aud15, HS12]. neighborhood [CSCH01, Sin81b].

Nearest [Rum97]. Neatly [BB15b, Kim13, GSS09, Har87, Sha91].

Necklace [Gue17, HB83, PH03, SQ15, AW07, Wan82].
negative [Ano79b, BGG017, ELG88, GR14, GP96, JKS79, Koz17, Lai18, RST18, RST4, Sou98, Shi15a, Smi74]. negativity [Aud15, HS12].

Nest [BHD10, BHD11, JQ15, Li16b, Li19].
nested [KRR18, MRT12]. network [CW91, FHZ17, Li85]. networks [CMM17, CMM20]. Neuberger [Dok75, Pat08].

nonself [FJS14]. nonself-adjoint [FJS14]. Nonsingular
[AEdF13a, AEdF13b, BY76, BNP06, FJ09, HT10, HXL16, IS15, JT95, Liu18b].
Nonsingularity [BLZ10, BSÜ13, ES98b, LWB11b]. Nonstandard [Ore19].
nonsymmetric [BJ94, BT07, BSO17]. Nonuniform [BV16b, BV16a].
Nonsingular [AEdF13a, AEdF13b, BY76, BNP06, FJ09, HT10, HXL16, IS15, JT95, Liu18b].
Nonsingularity [BLZ10, BSÜ13, ES98b, LWB11b]. Nonstandard [Ore19].
[NW02, AEdF13a, AEdF13b, AYP93, BC05, BS16, Ben74, BT15, Cha96, CHL18, Dat80, DH16, DdF15, Epk89a, FMSS19, FS14, FLZ07, Kir00, KK90, KS17a, LLL+11, LT12a, LC14, LZZ17, LZX19, LL15, MW18, Man78, MP13b, Ota13, Pat83, PGLM00, Rem82, RW84, SYZL17, SS96, SMS15, SD20, TW19, WL18b, XW19, XZS19, ZZ15]. **numbers** [EB17, FW07, Fer09, Haw05, Hou09, HLZ05, LL17, LM19, Ost74, TB01, WWS19, Wu09].

**Numerical** [AMP02, BDK09, BB15a, BB94, BD98, BDPS04, Ber02, BM17b, BM18b, BS04, CW17, CN04, CN14, CL00, DTS15, ERS12, Far02, GW98b, GW04, GW15, Joh75b, LN98, LS02, LS04, LR04, MM07, Sed04, haYsS99, AS11a, AAK16, AYT83, AY84, AY95, AyT84, ALP94, Bal80, BD88, BLD91, BL92, BD96, BDP12, BDPN14, Cha92, Cha93a, CCC14, Cha18, CGW14, CL17b, Che94, CL94, CT96, CT09, CL13, Che14b, CL14, Che16, CM15, Chi98, CNP05, CN05, CNP06, CN07, CN08, Chi11, CN15, CGL+16, CH10, CGHK08, CKP09, CLMR09, Cro08, Da 94, DHKSH08, DM14, EDKA07, EM15, FT87, Far93a, FNBR96, FHL+14, FL16b, GW08, GW12, GW16, GTZ75, Go17, Go18, Hu89, HT91a, HT91b, Hug90, JLL07, JL88, JSG94, Jon92, JNR93b, JR93c, JR94, KPL+09, KP14b, LLS14, LLS16].

**Numerous** [EB17, FW07, Fer09, Haw05, Hou09, HLZ05, LL17, LM19, Ost74, TB01, WWS19, Wu09].

**Objects** [NW02, LN10]. **oblique** [BT13, GT98, Gro99]. **observations** [Egg95, Sma17]. **obstructions** [Kar90]. **occurring** [JWP98]. **odd** [AM13, SSW15]. **odd-bipartite** [SSW15]. **Off** [DHS95, WC12, Zab89].

**Off-diagonal** [DHS95, WC12, Zab89]. **Olga** [Sch77]. **Oliveira** [BMD87, GLS13]. **One** [Brel7, Cha84a, AVVA18, BHD10, BLP08, Ben90, Bén11, dAB17, Bot87, BM16, Cho10, CL01, DH16, El95, Erc93, GMV18, Gur79, KS82, LL16a, Lim90a, LZ15b, MMRR16, Ore19, Shi15a, So99, SKP18, SH92, WL18a, Wat85b, Z005]. **One-parameter** [Brel7]. **ones** [HLZ05, Liu92, Wan05, Wu09]. **only** [MO91]. **open** [DH17, BS17]. **opérateurs** [Del94]. **operation** [Bre14, YW19].

**Operational** [Rom82]. **operations** [Cir15, Joh11, LZ15a, MN04, Zha14a].

**Operator** [CW11a, Dra19b, DH03, Far02, Gue94, MS02, RS85, Tal17, WZ14, YSK15, AAP82, All14, AXH15, AO97, Anj17, BHC16, Bak16, BM19a, BDK09, BJS15, BD84, BH16, Bou13a, CL91, CDJ13, Che14a, CL17b, CNUV16, CC18, CIP17, CIP18, Cve18, DD10, DCI10, DV18, DD12, ESAJ18, FJS14, FH15a, FJK98, FMS19, HCl14, HS81, HSW19, HOT15, HQ18, Ikr15a, JX13, KS14b, KMS18, KD16, Kit91a, KK13, KL19, LM85,
[LS15, LD19, LFY16, MO94, MGH19, Mos19, PSA14, PSMA16, dSP16b, Pep19b, Rad16, Rai14a, Rai14b, Rai19, Sed11, SR17, SG18, Son14, TD14, XQ16b, XSH18, Yu14, ZZ16, ZHH09, ZZZ16, dPN81]. operator-eigenvector [Che14a]. operator-entried [dPN81]. Operator-norm [YSK15].

Operators [BLdPS04, Ber02, DS02a, DKK19, GW17, HT91b, MˇS02, Sed04, SB03, AN19, ADKP14, AGV19, AAPP19, AHK19, AFM13, Amm18, AP17, BHD10, BM15a, BP89, BP90, BP92, BL93a, BdPN14, BLZ11, Boa13, BJZ13, BPR14, BT17, BCM18, Bou18, BM15c, Cam14, CW81, CQH15, CL17a, CN05, CGL+16, CH10, CGM19, CIN15, DH17, De94, Den14, DV19, DM13, Dra10, Dra11, Dra16, Dra18a, EAM19, Esh17, Fan83, FNX18, FBR96, Fur08, GT14, GR81, GW12, Gil16, GR91, GR93b, Han17, Han19, HBM15, HH16, HKSR4, ISC11, JS19, Jac79, JK16, JX13, Jon78, JS15, Kan16, KKL20, KP92, Kit91b, KL15, KLS08, Kut19, LLM05, LS16, LS16a, LS16b, Li87c, LT88c, LT88b, LT90b, LT90a, LT90c, LT93, LM93, LP93, LMR94b, LˇS901, LZ01, Li11, LPT11, LD19, LS17, LGG19, Luo19]. operators [MSS13, MF79, MˇS09, MZ91, MP18, MP19, MN12, ME18a, ME18b, Or18, PSS15, Pep11, Pep19a, Pep19b, Pet10, Pop17, RT09, RS85, Rao18, Ras17, Ras19, Rho94, Rod08, RF19b, RF19a, RSPT17, Sam78, ST19, Sed11, Sha18, SA10, Shk12, TH14, TD16, TD19, Tan13b, Wal79b, WD17, Wil81, WC12, YC19, ZMCN19, ZZ16, ZZC17, ZZ00, dBS00]. optical [FP17]. Optimal [AP17, dBS00, BGDV11, Blo95, CHFC19, Igl99, LN10, NW02, PSS15, SS79, Sha17, Vas80, IWpW14, WM84].

optimization [BLX18]. orbihedra [ZZ00]. orbit [Far90, LT89a, RS07, Zha01a]. orbits [CQ18, DRW93, GS19, LPS08, LT13].

Order [AAT17, KW17, Peñ02, vBW95, ACMS10, jAS15, BS18b, BH13, BH16, BMGMC16, Cam83, CQW16, CJ12, Cir15, Cir16, Cir17, CGM19, CM07, CCLN16, CIN15, CID16, CML19, DTS15, DD14, DL92, Dok93, Dok09, EM95, FTZ08, FP17, FJK98, GZY18, GHT16, HSS13c, HSX16, HSM17, Hill07b, HK10, Jin17, JKB17, KMS16, KS17a, Kre16, Kri87, sL19b, LPT14, Leg06, LW08, LF16, MRT14, Mat90, Mit92, New80a, Rad16, SWL13, Sio14a, Sta15b, SF17, Tos79, WL18a, XQ15, XQ16b, XSL15, Xu18, ZX10, ZCP17, tHK17]. order- [Sta15b, SF17]. ordered [Leg06]. ordering [Har78b, WL15, WC15].

Orderings [MP16b, Gro97, Hey88]. Orders [Mar18, And96, JS15, MRT14, Mar15, MRT15]. ordinary [ZG08]. Oriented [MR19, CT16, Gon17]. orthodox [Mar92]. orthonormal-monotonic [Mar92]. Orthochronous [Les93]. Orthogonal [BD97, GP14, GK02, GW76, Hol95, HK13, Hor94, Lop11b, Per17, SZ19, BT11, Bas17, BBM15, CH87, DP00, Dok09, DWCD19, Ell95, Gal08, GAGM18, GZ99, GHT16, JWP98, KW92, KMP+19, KLS08, LM93, Lin01, Mal95, MRT12, MG19, MR08, MAH18, ME18a, SM19, TL12, Vio06, WG91a, Xu18, Zha01a]. Orthogonality [DS02b, Gro17, Hol04, RS06, RS08a, AR15, CP13, Fan88, GP14, Per17, RS09]. Orthogonally [AGV19, RS17]. Orthogonal [KCBR87, LZ01, MC86, WG91b]. orthostochastic [PT87].

P [JT95, TT74, XCC99]. P. [Fie84, Zha95]. P.I. [CV94, Di 88, Per15, Reg93]. packet [Far17]. pair [BT13, BZ90, IS16, LD17, TT06, Uhl79, WZH13a, WZH13b, You15]. pairings [Yuz84]. Pairs [BG86, Do 96, Rod08, SB03, Tan74, Aln11, AW13, BJS98, BZ99, Bea78, Cal97, Cal99, CLW15, Che17, Dod13, Fer10b, FKK11, Gau08, GPM06, GM14, Gur79, Gur92, HZG14, KHG13, KC16, Pet00, SH98, Uhl82, WHG17, Wat77].


Pauli [MS15b, MS16b]. Pellet [Mel18]. pencil [Gou13, LC18b]. pencils [Atk91, BY76, LL14b]. pendant [LT12a, LDL17, WDJ10, XW19]. pendent [ZL19]. Penrose [Bap97, Boa19, Bom02, BZGW16, DD10, DW12a, DLW18, Fie95, Gro99, HPV84, HPV88, JGK79, KMR89, KRO7, Kyr11, Li11, MZ15, PA10, Siv06b, SZBW16, SPS15, TC04, Tia05a, YZ14, Zha04b, ZFSX17].

pentadiagonal [MMG15]. pentagonal [Sim83]. Per-spectral [ZWL15].
Perfect [CG16, KMP+19, PB17, TM19, AFTG19, BJ94, DP09, Que08].
period [New80b]. periodic [BB19c, CKN95, CLW15, Sat11, Sie99].
Permanent [BC78, CD03, Hon92, Pat03a, Coe96, DJ98b, Fal97, FS86, GJMW86, Hon91, Hon93, Hu94, Hwa85, Hwa91, HS93c, KS84, Lin79b, Lon73, LM89, MS85a, Mer80, Pat96, Phu80, Sin73, Sin76a, Sin80, Sin81b, Sin84b, Sol97, Sol00, Sun92, IYW19, dF05, dF13, dF19].

Permanental [JP87, LZ11b, Pat89, Bap91, BF75, Cha90b, DJ89a, For79b, GHL10, HT91b, Kop94, LT92a, LZ14a, Lon97, Mal89, Sou03, WL18b].

Permanents [Ach77, AAT16, FW86, For88, HZ03, Kit81, KS76, Pat81, SHC02, SJ02, Wan05, BE90, Bur95, Cal95a, Cha83b, Cha84a, Cha88, DH91, ES73, For79a, FM78, Fri82a, FLS88, Fri90b, Gol92, Gyí78, KS82, Krá87, LHP75, Min74d, Min80b, Min83, Min84, Min87, Pat92].

Permutations [Cha79b, Kap77, Leh76, LF16, SRW07, Wan80].

Permuting [CL14, Hol85].
Perron [AD17, BOvdD95, BAN12, DM87, EJD88, Fic73, GS83, Har78a, JP17, KNS96, FK98, Mel13b, Mey15, Roh06, SPS15, vBW95].

Perspective [BT11, NS18].
Perturbation [BCM18, CQW16, CLX03, Din00, –DM79, LYS15, LSX19, MMRR09, ZY13, ZZZ16, Ben90, DLW18, Din98, GLS16, JLD12, KN97, LL17, MMRR16, MZ15, ST15, SWL13, So99, WMR16, YZ14, ZYL13, ZVL18].
Perturbations [Gal03, ST97a, Amm18, BOvdD91, BCDHP10, Bén11, CC18, Fer09, Fer10b, MMRR16, SS12, XS18, ZFSX17].
Perturbed [BKP01, CTW15, FS89, GTM14].

Pfaffian [CT09].
Pfaffians [IW95].

Picard [CH06].
Pick [CH12].
Pick-type [CH12].
PID [Hua01].

Pietsch [BPR14].
Pivoting [EM95].

Plethysm [CRY95].
Plethysms [CV94].

plus [Ikr15b, Sol06, IWPW14, IYW19].
pockets [Bar08, NP15].

Point [Bed10, Bed11, BX11, Car90, DF82].

Point-sequences [Dok81].

points [BLP12, Beb86, BS15b, BD9+05, CJK+13, Gei78, Hon92, KM98, LPS13, MS87, NT91, Rao18, Spi00, TH14, ZX16, ZXL16].

Polynomial [AS11a, BP09, Cal03, CGH14, Mel19, Red02, SA07, Wat77, Adh13, ASAS79, Ami11, Ami80, BB17a, Bra86, Bre14,
polynomially \cite{Kan16}. Polynomials \cite{AP04, Far02, LM85, Mes13, New76b, PT02, Spi76, AS11a, AM13, AS12, AGV19, AADD18, AGZ00, BS15a, BCR91, Ben74, BH74, BG79, BMP10, BPR14, BD13a, BP18, CC17b, CNP05, CNUV16, Coh88, DP98, De 90, FMSS19, FGMSS19, FW73, FdSV16, GA85, GdSV16, GMD85, HHC12, HMAD13, IS15, IM18, Iop19, JRMFMASS16, KLPK17, KK16, LB19, Lip98, Lit17, Mel13a, Mer79b, Reg89, SS07, SK15a, SK15b, Uhl99, Wim88, WW12, dO75}. Polytopes \cite{SHC02, Bru85, BD13b, Hwa85, dF11}. Polytope \cite{Har91, Sie99}. Poncelet \cite{CN04, Mir09}. Pontryagin \cite{Sin83}. Porism \cite{Mir09}. Portions \cite{CN08, ERS12}. Posed \cite{BHM76}. Poset \cite{Foˇs05a}. Posets \cite{AST05, BC91, KC16, Ste94a, WW01}. Positive \cite{BBP78, BR01, Cha90a, CIDK07, DH03, Grz91, Hil07b, KRR18, AG15, AO78, And96, AB19, Bak84, BSM98, Car19, Cha92, Cha93a, DM17, DPP17, DH86, DM13, DJ98, DJL94, DJ98, Dru15, DN18, Fun73, Fan92, FW07, Fla75, FH15a, FS15, FSY16, GT14, GMZ11, JAG12, KL92, KLZ96, KL92, LRT91, LZ14a, Lon73, LT07, MW74a, MF77, MR97, MP98, Mar90, MRT12, MG19, Mel18, Mel19, Orz84, Ota13, Paz84, PR12, Per15, Pie92c, PV00, Rei77, SA07, Sla16, Soa08, SL95, Tie16, Tre87, Vel18, WLB19, Wan19c, Wat86}. Positivities \cite{WLX16}. Positivity \cite{CC98, FJM00, JNT96, YHCW14}. Possess \cite{PP16}. Possibilities \cite{SS96, JR84}. Possible \cite{FW07, HLZ05, JRL, Wu09, BF96, Uhl13}. Potent \cite{BT06, BT08b, BLZ10, Den14, HLZ11, McC85, Rom19}. Potential \cite{HMO11}. Potentials \cite{KMP+19}. Power \cite{KPP13, MF92, MO93, BM07, Bun91, CP15, Goi07, JM85, Lei93b, MGA17, New80a, Tam88, Tan10, TLL11, TLC16, XL11, Zha14b}. Power-associative \cite{Goi07}. Power-compositions \cite{BM07}. Power-exact \cite{MO93}. Powerful \cite{MM11, WYM11}. Powers \cite{AGR91, Ash98, Bou13b, Coa99, Pat83, Mcf79a, Mov91, Pat92, Pok87, Stu89, TIT, Vas87, HOT15}. PP \cite{Ano16c}. PR \cite{MR17}. Practical \cite{WSZL17}. Pre \cite{SL19b}. Pre-order \cite{SL19b}. Preaffine \cite{DW92}. Preceding \cite{Mar82b}. Preconditioned \cite{LZ16}. Preconditioner \cite{Zha20}. Preconditioning \cite{CP16}. Predictor \cite{Chu84b}. Predictor-corrector \cite{Chu84b}. Preduals \cite{BPR12}. Preface \cite{Ano16d, BLZ12, CK12, KL11, KL17, LRT08, LT09, LPW14, LSS16, STZ15}. Prehomogeneous \cite{Ven19b}. Premières \cite{BC06}. Prescribed
presence [FW13]. Preserve [Lim90a, SB03, BCN05, BP89, BP92, CL17b, HKS94, JS94, JLL88, JP07, LT88c, MZ91, Slo16a, Wat77, Wat82]. preserved [Can80]. preserver [Ano92g, BLP92, CL01, Hua16, Joh11, MS98, ST08].

Preservers [BJS15, Ben18, Gur97, LM03, LS04, LR04, RS09, SK03, SMBP15, BPS90, BS92, BL97, BL01, BS01, BS16, BS17b, BS17c, BBEL18, BH16, BMGMC16, CL95, CC14, CL05, CLN13, LMR09, DGJ916, EBB18, FHLs13, GP14, GL97, HQ18, KS12, KP14a, LL16a, Lau81, LT88a, LT92b, LT92c, LT92d, Lim97, Lim01, LT14, Lim15, Loe92, Min77, MSS19, Per17, Sin82a, Slo15a, SA14, Tz06, ZS05, Zha05]. preserves [Coe96].

Preserving [DˇS04, Dol04, Kob06, Zha04b, AN19, AS17, Aks18, BHD10, BHD11, BP90, BL93a, BEH19, BBS09, BDS13, BS97, BCS18, BH13, Bot79, Bot87, BM15c, BS013, BMGMC15, CGY13, Che14a, CW16, Cos14, DS13, Dol07, DHB07, EAM19, EL90, Fos05b, FKKs11, FHL+14, GM18, HR85, HS17, HH16, Hua10, HM18, HZXL15, JQ15, JLR92, Joh11, KP92, Kov77, Kun99, LI87c, LT88b, LT90b, LT90a, LT90c, LM93, LP93, LMR94b, LSS01, LZ01, Lim10, LJ11, LL11, Li15, LL18, MF79, MR12, MS09, MO13, Mc92a, Mol09, MN12, ME18a, Nag17, Pet07, Pet10, Pie79, QH17, Rai87, RJ04, RS06, RS08a, Slo13a, Slo14b, Tag12, TH14, TH18, TKT19, TB02, TXX08, WC11, WZTL13, WJ16, Wat83, Wat85b, XCC99, ZHH09, ZCZ12, ZX16, ZWW10, ZXF15, ZL17].

Price [TT78]. prime [Cen11, DS13, Far17, JL12, LWZ15, New08a, Nor95, Nor08, Per15, QH17, Sta14, Sta15b]. primeness [Per15]. Primes [RS74].

Primitive [BS17b, dSP16a, WYM11, AF11b, CC17b, GSS09, LL10, LM95, LL09, Li12, SGG12, YMYS13]. primitivity [BP89]. Principal [Dru15, LP03, LMMR15, NS92, NS93, Rao81, Vrb86, XFG14, Bén10, Cho82, Dix79, Fie81, HKT15, HS87, HK16b, Hol84, HT91a, HO17, Joh84, JovD84, MR18, Nas75, NTU93, Pri87, ST08, TT78, Tho92b, TDL18, ZHZ11].

principle [dC13]. principles [LL14b, Sin83]. Private [KP14b].

Probabilistic [BAN12, WW76, Sim83]. probabilities [Ger86, Joh82a].

probability [CFZ17, DPP17, LN14, Sti87]. Problem

[AMZ13, Bot94, BM89, CM92, Cra09, De 82a, DHS95, DS09, Est88, GPM14, GMD85, Her83, KLM14, KLKP17, Min84, Si18a, Si18c, Si18b, Si90, Si93, Si95, Si98, Si99, Tho75a, Tho75b, TI77, Zab89, Zab90, Zel85, dO75].
Fri88, GMZ17, GLL18, GKT97, GM87b, HRMP95, Hua16, Joh82b, Joh11, JTU00, KPL+09, Li85, LL88a, LZ16, LLV18, MM06, Man91, Mer91, MS98, SQM99, Sch91, Sin82b, TT85, WS81, Wu83, WL16c, Xu93, YLW15, Zha00, ZH11, ZV19, dF13].

Procesi [Reg87a].

Process [DMV18, FSFSO+14].

Procrustes [Rau18].

produced [Tia11a].

Product

Bal77, Bal79c, EM87, Ell95, Gib76, Laf83, MKS84a, O'R15, Pat81, Rod97, ST91, Sul08, Wil99, Alp95, AAdFS19, AOG97, BK83, BJ75, Bar76, BJS93, Ben18, Bre12b, Bre16, BSO13, CW81, CGY13, CL85, CG17, CL17b, Che95b, CKL16, CG16, DSD83, De78, DF90, Dol07, Du10, FL16a, FJM00, FHL+14, FIS06, GWW15, Gil16, Gro96, Hal91, Har84b, H81, Hua91, Hua00, HLH18, Joh74b, JOvdD84, JOvdD85, JN90b, Kit91a, Kur04, LL16a, Lim15, LR80, LW08, LFY16, Liu18b, Liv94, MKS84b, NS99, Ng14, Pat82, Pat92, Pat08, Pet10, PT87, RS10, Sill90, Smi94, Spi04, SW81, Sur98, TH14, TK19, Tan16, TC04, Tia05b, Tia18, Uhi82, Wan80, WZ97, WC16, Zha89, ZHH00, ZX10, ZXF15, Zim89].

profile [LB19].

programming [Bar07, Che92, Gur98].

programs [Caf13].

projection [Gro99].

Projections [XCB18, AHT85, BR10, BC13, DWCD19, Gal08, KW17, KR07, LD17, MR08, Rei83, Sz85].

Projective

Jam88, Rei75, Den05, Ng14, Pan13, RS06, RS08a, RS09, SZ85].

projectors [BT11, BT13, DW12a, GT98, KR14, TL12, TCI13].

Proof [Kit81, Rad80, Tho86b, Ay95, Ave95, Bar12, BD96, Fri82a, HL09, Koh11, Mcl18, Min82b, Poo80a, Reg87a, RW84, Rem90, Ro99, Tan91].

proofs [BM18a, CL13, DHT94, MS82b, Rem82, ST80].

QR [LYS15]. Quadratic [BSO17, Rob77b, Adh13, Bae84, Bre18, Che92, Dra18a, Edw80, Fei75, Ful76, Ger82, KML95, Lee18, Lew97, LPT11, ME18b, Pap13, PUÖ15, Rai19, Rus16, Shr90, Sol80, SPM14, Tau81, TS05, Tia11b, UÖÖ15, UPÖ16, Ves80].

quadraticity [PUÖ15, UÖÖ15, UPÖ16]. quadrilateral [HL18].

Qualitative [JvdD91]. quantifying [Aud15]. quantitative [Fie73, IT16].

Quantized [JP15a]. Quantum [KLZ10, MS16b, Ahn11, AG18, BLX18, CHGF19, CHFC19, Da 94, DHKSH08, Drn13, FHL15, JP15a, Joh14, KMP+19, KPL+09, KP14b, ShDHG08, Zha14a].

Quasi [And96, aCC17, DSP16b, Gol06, LBV13, MP18, TLC16, Tom19].

quasi- [MP18]. quasi-Banach [Tom19]. quasi-coprime [TLC16].

quasi-filiform [LBV13]. Quasi-orders [And96]. Quasi-range-compatible [DSP16b].


Quasinormality [Ras17]. quaternary [BX11, BSO17]. quaternion [AAK16, Din15a, FWZ11, FNW18, HW13, HW14, HZ12, Kyr11, STZ94, Tho87a, Tho89, YL15, YW16].

Quat ernionic [haYsS99, AAB17, AY84, AY95, CCL10, EÖ15, Fen10, MVS14, Rod08, ST96].

quaternions [KT19, Kri87]. question [GR14, KNX95, Sin80, Zha95]. questions [BHM76, CKLP13, dF11].

queue [GT08]. quintic [BP18]. Quintuple [Sto79]. quotient [ZY13].

quotients [BdPNdP17].

R [Ano79b, Fie84, Shk12, Zha95]. R. [Don91]. Racah [WHG17]. radial [Li86, Tam86]. radical [MV75]. radicals [GLOT13]. Radii [Gol07, LR04, A097, CC14, CL14, CLMR99, FNB96, GWW15, Gol79, GS19, Le91, Le95a, Le98, LT89b, LT92c, LMR94b, Li94, LZ01, LDM17, MS82b, MS85b, Sab98, Tam98, YHS13].

Radius [Fla74b, LÆ02, PT02, ALP94, DKK90, BM17b, BM18b, BBZ15, CCS16, Cha92, Cha93a, CW17, CHQ18, Cos14, DLSS18, DM14, DIF13, EAM19, FTZ08, FLZ07, FYIS13, Fr93, GL11, GTZ75, GB11, GRS16, HH16, JLL88, JSG94, Koz7, LP07, LTTS4, Li87c, LT88a, LT88c, LT88b, LS01, LT09, LT11, LT12a, LC14, LLIP18, LS12, LS13, LL15, LZ17a, LZL18, LZ19c, LLC10b, MAN19, MO94, MP96, DP13, NG15, OKU93, Pe11, Pe19a, Pe19b, SYZ17, SH17, SZWB16, yT86, TJ11, Ton87, WH11, WZ18, WY20, WD10, XW19, XZL14, YSY17, ZMCN19, ZQC18, ZHH09, ZG11, ZL19, ZW17a, dIP09].

Rado [GX17b]. Radon [AYC93, GP74, Lee98]. raising [GR81]. Random
random-effects

Ranges

Rank

Rank-additivity

Rank-one

Rank-preserving

rank-sum-maximum

rank-sum-minimum

rank-two

Ranked

rate

Rational
Sil84, Tre85, Tre86, TSYB82, Uhl79]. **Rationality** [Fri90a]. rationally [DH91, Tre87]. **rationals** [MV75, New93]. **ray** [BGZW16, ZHLZ13]. **Rayleigh** [AB78, BPDNP17]. **rays** [Pat03b]. **reachability** [NS85, NST91]. **Real** [ABC18, Joh81b, LP02, Slo13c, SB03, Ven19a, Wes81a, haYsS99, AF11a, AF11b, AF12, Adk95, AS12, AGZ00, Ball14, BS92, BB75, CO12, CIDD97, DH86, Den80, Dok83, Dru15, EJ91, Esc93, Fan73, GP14, GW17, Gon17, Gue19, GHK16, Ha89, HW13, HW14, HS88, HLZ11, Jin17, JKB17, Joh84, KML95, sL19b, LS16, LM93, MMR16, Mes90, Mir09, Moh16a, NP91, ORT15, Ota13, Pal79, Pas15, Per17, RS06, RS09, Rom89, SU77, SL15, SNS15, SK15b, TT12, Th75b, Tie16, Wes80, Wes81b, Zha01a]. real-positive [CIDK07]. realizability [JMP17]. realizable [LS10]. **realization** [JMS15]. Realizations [NU94, AM90]. realizing [CJK +13]. **Realteil** [SU77]. rearrangements [TI77]. reas [KL96]. Reciprocal [AH16b, BNP06, HINS10]. recognizing [Gre99]. reconstruction [SS07]. rectangles [Lor14]. rectangular [BCR91, Car19, CKP09, Cra91, LT88d, MHH96, Mis17, MUS19, ZS05, ZL18, Zha19]. recurrence [Kom10]. recurrences [PSW18]. reduced [Car06]. reduces [For79a]. reducibility [OR09]. reducible [Cav10, CNP06, CN07, GSS09, Ikr15b, Stu89]. Reducing [OW02]. reduction [BT90, CS18, FN14, Gal01, GRMA13, HH85]. reductive [Koh11]. **Referees** [Ano11b, Ano10]. **Refined** [KK13, BM15a, IGyW99]. refinement [YLC19a, You15]. **Refinements** [Bak16, Dra11, LS15, TGW14, Dra19b, SG18]. **Refining** [Bap88]. Reflecting [AFVL00]. **Reflection** [LM03, Ell93]. reflections [DM79, EM87, Ell95]. Reflexive [Mia93b, AH13, CN15, Had83, Haj18, Qi15]. réflexivité [Del94]. reflexivity [CHR00, Del94]. regarding [DJ99a]. regional [JLR +92]. **Regions** [LS04, LL14a]. Regular [KS15, Pen02, AG16, BEM12, CP81, CL15, CP18, DFK19, DP17, DGR08, EB17, FG06, Go10, HS95, KMS16, Koor95, LR13, LM10, MS10c, NS99, PH15, Rod03, Sta10, TW17, Zho16]. Regularity [FG02, BV16a, CFG06, HRT15, RR95, Ska17]. regularized [DPP17]. **Rejection** [Whi74]. related [AkK17, Ala16, AGR91, Car90, CKLP13, CN14, Cho18b, CL01, DP18, For79a, GX17a, Hoh92, LPT13, LT87, LFY16, MGA19, MrD92a, Mrf79a, SMBB +15, Sin84b, Sto79, SK15a, Tia01, Tra84, WZ14, XQ15, YGC19, ZW19, ZBW12]. relating [JL88, Li91, Pat82]. **Relation** [CD03, Wan99a, Bén10, CHL18, Dj16, DK16, Fie90b, LZX19, Lim79b, MW16, Wan16a]. **Relations** [DS02b, BCM18, CC92, Che14a, GZ76, JR93c, JR94, Kom10, LST98, LT92d, PT87, Put82a, San18, SX18, Sim83, Tam91, XS18]. **Relationship** [WW12, DMV18]. relationships [SPS15]. **Relative** [DHKSH08, Dom00, For87, Fur11, Hol04, MN12, ZBW16]. relatively [Dre93, JKD16, XS18]. relaxed [Szv18]. relevant [Tik98]. **Remark** [KL19, CH10, Fan88, Fr90b, GT79, Hul81, Mar82b]. remarkable [JLL88]. Remarks [BSM98, For79c, LW11b, dF13, Gro97, Odo83, YT15]. Remarques [Rev81]. report [LRT08]. **Representation**
Representations [BZZ11, Che93a, DD10, Don91, Ful76, KO10, Kra06, LCC19, Mer82, SKM17, ZFSX17, Abd09, AS15, BS18a, BP18, CR15, CV94, CICX09, DDJ76, Heo16, Hum83, Hum86, Kut19, Kyr11, Lip87, LYZW12, MI17, MR13, SQM99, Sei95, Til77, WL16b, ZT12].

representative [MN96, WW80].

representing [RD12]. Reproducing [BR04, YGC19].

require [BJS98, EJ91, Esc93, KMT96].

Research [Ano82f, Ano82g, Ano83m, Ano84e, Ano84f, Ano85g, Ano86e, BC05, Bap92, Bar88, Cal95b, CLLT93, De 84, EJ88, Fri88, Gra93, GM87b, JC74, Joh89, KPL+99, LMMR01b, Mer91, RP04, Sch91, Sol06, TT85, Tau73b, Tho82a, Tho85, Tho87b, Tho91, WW01, Zha92, Ano97b, LW96, Mer79a, Zha00].


resistances [CMM17]. resolution [PA94]. Resolvents [Gil16, Gil14].

respect [AC13, Aln15, Che91, FH73, HHC12, HPV88, JST18, LT89a, MO94, Oku93, Pop17]. Restricted [Pap13, Bal79a, CC19, Che93b, Che93a, CP16, Ned98, SG96, SPK15, SPKC15, Wer84]. restricted-rank [Ned98].

restriction [Wan15]. restrictions [BZ99, Bou18, Far94]. result [AK17, BB17a, Har84b, JLL11, New74, New82a, Poo80a, Ric87b, Tan91, ZY16].

resultant [Bar80, GKLRS2, Orz84]. resulting [MP87a]. Results [LN98, Tau74, TH80, AAK16, AN14, Anm18, BL83, BHK78, BM17a, BLZ11, Boa19, BZZ10, BSZW13, CL13, De 82b, DCW10, Dw12a, DHT94, DIF13, GHL10, GX17a, Guz88, KCICV18, Li84, LT87, LZT18, MR97, Mou13, NS85, New75, Nie10, SMBB+15, Sin82b, SWZB15, Tam77, WC15, mWyD11, Wer87, YGC19, ZCP16].

Retarded [DGR08]. reversal [Kir93]. Reverse [CIN15, CIM19, KM11, LW08, Rad16, ZCP17, BS18b, CID16, DD14, HKO16, LFY16, RW84, WZ14, XQ15, XQ16b, ZX10]. Reversed [DL14, BAK16].

Reverses [BM15b]. Review [Fan81, Kap80, Lei81, Tho83, Yaq80, AK78, Ano83a, Ano89a, BFMM73, Con94, Fan84, HS81, Hum83, Joh83, Keg87, MT83, Mer98a, Pie92a, Sch92a, Sha95, Sko85, Sta94, Tho82b, Tho82c, Tho82d, Tho82f, Wat84a].

Reviewers [Ano12b]. Reviews [Ake80, AR80, CST75, DW76, Doz79, EA77, FAR78, HUSG74, JM77, MB76, MS80, MBLS74, MKG+74, Ry73, SB75, Sen81, SA77, TB76, Tho81a, Tho82c, WNM74, CS79, GMS+76, JTH77, LW78, PA79, WTM78, ZF78].

revisited [CBQW19, DD14, Eri15, FMS19, FHL+13, Joh90, JZ95, Per17, Vel18, Wan19b, f19]. Revisiting [Lip87]. Ribbon [FJK14]. Riccati [CK84, DLL19, FN14, Ig99, LRR87, NF19]. Richardson [AW13, AM90, BG90]. Richman [BHM76].

Rickart [Cir15, Cir16, Cir17, Kre16, Mar15, MRD15]. Riemann [Red02]. Riesz [BCM18, CDJ13, DMV18, FJS14, HSM17, ZZC17]. right [Ake83, Bal80, Dok73, HBM15, MRD15, Pat89, Tho86a]. right-star [MRD15]. rigid [BCS18]. Rigidity [BCS18]. Rigidity-preserving [BCS18]. ring [Bas17, BH15a, DL92, Dok93, For79d, HWZ18a, Hua10, HPV84, HPV88].
LPT13, LCL13, Lew90, LQ95, MW16, OWX09, Piz87, Slo15b, SZ19, SX12, TZZ19, TW17, WOY06, WZL13, YWO07, ZWM17a, ZWM17b, Zhu18, ZP19, ZCCIW12. Rings [GMR81, RR04, Rao81, AH10, ABvW16, AW13, BY19, Bas17, Bas19, BLR12, BCI13, BB17b, BDvW12, BDvW16, CS18, CG19, Cir15, Cir16, Cir17, Coa99, DPvW13, DS13, DD15, Ere15, FJK14, Fog73, FSVW11, GV89, Gus81, Haw05, HLZ18, HLH18, Jam88, Jam95, JL12, Khr16, KL12, KR07, Kre16, LPT14, LWZ15, LC18a, LL10a, LCL14, Mar15, MRD15, Mar18, MP13a, MP87b, McD92a, New85a, PA10, QZ16, QH17, RS08a, SM19, ST97b, Tz17, Tzu73a, Wan16b, Wan19b, Wat85b, WY18, YW05, YQ90, ZWZ10, ZY08, ZCP16, Zhu19, ZCP18].

Robert [Ano97b, Day97, GPR84, New97].

Robertson [JZ95, Joh90].

Robinson [Foa79].

robust [Ano16c, Ous15b, So14]. robustness [AT18]. role [MN96].

Root [Hai92b, BAN12, CGH15, EJD88, FZ11, Hai92a, Mel13b, Mey15, vBW95]. roots [AAT16, CL74, HHC12, IK19, JN80, KN81, Nom73, Ota13, Tie16, Uhl99].

rootsystems [Hai88a, Hai88b, Hai97]. rose [MH16].

Rota [FW73, Gar73, KKL20, ML16]. Rota-type [KKL20]. rotation [GTM14]. rotational [So93]. Rotations [Edw80, Edw78]. Rotfel’d [FL16b, HWY17, HWZ18b, YLC19a, Zha15b, ZN18]. Roth [FW13]. round [Spi00].


rule [BG90, CRY95, Che93b, CPT15, Wer84, WY18]. rules [Che93a, Kyr08, Kyr11, MS10a]. Rutishauser [TT15]. Ryser [MS85a, New83].


same [CW90, Do 96, Fer10b, JGK79]. sampling [KKP13, SR17]. Samuel [Yu14].

Sandy [Tam86]. Santa [Ano79c]. satisfied [Wan82]. satisfy [McD92b]. satisfying [CW11b, CW12, Düf97, DKK19, Pet09]. Scalar [Est80, AF12, Bre15, PY82, Rod81]. Scaled [BKL02]. Scaling [JR09, FLS88, HS85, Sha91].

Scalings [HS85, SS79]. Scarpis [Dok17]. scattering [MS10c]. Schatten [FNBR96, So90, YLC19b]. Schmidt [LF15].

Schneider [BHM76]. Schröder [RS18]. Schur [AO97, Bap88, BT06, BS18b, Bun91, CRY95, CPLH17, Dia79, DS02b, ES98b, ES00, FJ15, GMZ11, Gur83, HS75, JK10, Kim91, LM98, Liv94, Mas10, MO94, Neu81, NT86, Rem90, SV14, Sm183, Tam02, WZ97, Wat86, Zha04a].

Schur-concave [Tam02]. Schwarz [Dra11, Dra19a, Dra19b, Oku91]. science [FHL13]. score [Kir91]. scrambling [GM18]. SDB] [JLL18].

SDB]-tensors [JLL18]. search [CSCH01]. Searching [FK91]. secant [BB19a]. second [Ano79c, BW18, Cam83, DTSI15, DdF15, Gro85, HSX16, Hii07b, Jam81, LP00, LF08, Lim90a, LGX17, Sim95, Sta10, Wal11, XZ16, XSL15].
Seven [NW02, Hai88b, Wes80, Wes81a]. Several [Orz84, ZHLZ13, Zhu18, De 75, GJR97, Paz84, dO75]. shape [Hug90, Jon92, KHG13, LSH13, Tsi81, WBZ14]. shaped [JRMFMASS16, LS12, LS13, Luo19, Rho94, Run97, YSY17, FMS19, Gil17, LZ17a, Mit92]. sharpness [KMN01]. shell [CNP06]. Shemesh [JP15b]. Shift [BR04, BG86, CNU16, Tam94, TGW14]. shifts [KY17]. Shoda [BS18c]. Shoda-completion [BS18c]. Short [MT83, Tho81a, Tho82a, Tho82b, Tho83d, Tho82f, AY95, Bar12, KP11, Ro99]. Shorted [CGM19]. shuffle [Lew96]. sided [EÖ15, Tur16]. Sign [BJ98, EJ91, Esc93, FHL+13, JWP98, KS02, KMT96, Kir11, LGA+13, MOTvdD03, Pei02, Reg87b, AG16, Cai93, Car06, GS06, GSS09, Hem93, HS93a, JvdD88, JVP07, Kin13, LLS10, LLL09, LHbl+15, MM11, Ma15a, MMRR16, Rem88, TI77, WYM11, WW01, YMY13, YHCW14, ZBW12]. sign-balanced [WW01]. sign-central [Kim13]. Sign-patterns [KMT96]. Sign-Solvable [KS02]. sign-stability [Cai93]. Signature [HR85, GLR82, WT16]. signatures [PT10]. Signed [HLP03, ADHM19, BPW16, BB19b, BP16, FDD14, FKC19, GVS96, KS17a, MR18, SSG12, SRD19, TI77, TWZ16, Wan19a, Wan05]. significance [ShD98]. Signless [LLP18, MH16, WBZ14, ZL15, AH16a, Ash16, AOTR11, CHQ18, DAIH19, FYS13, LZ11b, LL15, LZ15b, LDL17, LHH18, SYZL17, SHSI17, WI11, WZ13, XL17, ZW17a]. Simić [Ano16b]. Similar [Bou13b, Job81a, CLNT17, Liu18b, Lon90, Slo17, Slo8a]. similarities [Bal75, Bal76, JLP17, LT89b, Lij91]. Similarity [Bea86, BB75, DS09, GP06, Gur97, New82b, New85b, RJ04, Wat84b, BGdH92, BG82, CR77, DHH07, DKK19, FW13, GB77, GII99, GL97, Gus81, KT19, Kur04, LT89a, LT90c, LT92c, LM93, MW74a, Rob75, SI88c, SI90, SI93, SS96, Tia11c, Wat82]. Similarity-preserving [RJ04]. similitude [Vin06]. Simon [Raw81]. Simple [MP87b, BHI+11, Che07, CW11b, CX12, Chu84a, GT11, HPV84, HPW88, LQ95, Lip96, RI71, Tan18c, WW11]. simplex [ST86]. simplicial [Rad80]. simplices [BS08, Fie95]. simplicial [Tam77]. simplicity [Mar00]. Simultaneous [AY74, BT90, Grüt76, Laf78, Bed10, HH85, MS10b, Uhl79]. Single [Mer83b, Dok09, JP87, Mel13a]. Single-hook [Mer83b, JP87]. Singular [BI95, GHT11, Hil17, LT92b, MS85b, Mir81, NS99, RS17, Run97, ST00, ZL18, AJL14, AH87, Bap87, Bau85, Bot94, BC94, BZ11, CQW16, CS19, CH87, DLL19, DdF15, Di097, Fra13, GA18b, GRW92, GL16, HRT15, JN90b, Kar33, KS09, S19b, Lé019, Li84, LT90a, LT93, Lp93, Li95, Mat92, MS12, Nie10, NF19, RS07, Rie78, SDL10, Tho75a, Tho75b, YZ16, Zha00, Zha20, Zha19]. singularity [LB19, Sh15, Sh15b]. Sinkhorn [Car91]. Six [Min74c, Hua01]. six-term [Hua01]. sixth [Wan07]. size [KS93, KS17a]. Skew [CS10, CT16, AN19, AM13, AADD18, Arm17, Ben18, BZ10, CT09, Chu90, DD15, DH11, DLSS18, Fur11, GTLN18, Gm17, Kyr11, LW17, LTT11, LCL14, Lop11b, Lop18, MS16a, Mat92, Neu83, Nof15, PM85, Rod97, TKT19, Zha16a].
skew-Hamiltonian [Nof15]. skew-Hermitian [AM13, LW17]. Skew-rank [CT16]. skew-symmetric [DH11, Lop11b, Lop18, Mat92, Neu83, Rod97]. skewsymmetric [LR13]. Small [Fer10b, ST97a, Bre15, CGH14, Dok09, Fer09, LTT93, Mes13, Pat83, dSP11, PGLM00, SS12]. smallest [CL86a, CL86b, Dec95, LLF08, LHH18, PLH01]. Smith [Arm17, BK17, Cha96, Der83, GRMA13, HS96, IH11, Koo95, LT12b, New94, Pro95, Tho88]. smooth [Rao18]. sole [dSP12]. Solution [JSY14, AHHK92, ALP94, BZZ11, Che93b, Che93a, De 13, DWL14, FS19, Gra80, HKT15, HW14, HBP18, HM18, JS84, JM14a, MK16, Min80a, SPM14, Veia3a, WZHL13a, WZHL13b, YL11, Zha04c, Zha16b]. Solutions [DH03, Fla74a, Tiao3, Bak84, BBP78, CC17a, CH12, CCL10, CIDK07, CID16, DH86, DH11, FHW16, FNW18, HW15, HSX16, Li85, LD19, Pen15, PM78, Son14, Wan15, Wer84, XSL15, YZL17]. Solvability [Lev74, fLLL+17, VM18, YqS16, AG15, JvD91, KP11, Lip96, Tiao00, vWZ19]. Solvable [KS02, BL10, BCS18, CLOK13, Far93b, KLO14]. solve [BS17d, LT10, PLPC19]. Solving [BB19c, ST97b, CW20, KM17, fLLyP15, LZ16, LZ19b, LC18b, LW10, WX19, XW17, ZV19]. Some [AAK16, AN14, AW07, Anm18, AyT84, BS15a, BM19a, Bal75, Bal76, BG83, BD94, BJ19, BKL97, BZZ10, BSZW13, Cha89, CHFC19, CL94, DH17, DKT91, DCW10, DV18, DH11, Dra16, Dra18a, EMS02, EB17, Fan92, FV15a, GLOT13, Gai77, GA18b, Gro97, GX17a, Han19, HS83c, HS96, Hua08, Hua09, HXL16, HM19, Lop19, Joh82b, KI16, KMS18, KS84, Lék19, LT88d, Li96, LM98, LN98, MM06, MW80, MR97, Mar92, MH12, MTR11, MS98, New75, Odo83, Oku93, PH15, Pop14, Rái19, Ras19, SQH15, SSW15, SG96, Sin95, Sin82b, SWB15, SZY18, Tam11, TT18, Tau74, TC04, Tiao5b, Wan82, WH12, Wer87, YT15, Zha00, ZN18, ZW19, ZW17b, dF11, AE10, AAdFS19, BK17, Bel15, BH74, BM18a, BZ89, BSA17, BD14, Cal94, CGOT13, CGMR11, CL13, CM15, CL01, DP17, Den80]. some [DHT94, Din15a, DDJ76, EL09, FD12, Fen10, FLT20, FH15b, GA18a, GP15, GT11, GL97, HW15, Hu16, HLH18, HWZ18b, JD16, KMR89, KS19a, KSMB16, KT06, Kop94, KL92, Le95a, LT87, LT88a, LPS13, LD19, Mah82, MSS13, MP87a, Mar89, Mar00, MT11, MM07, Meh84, MOGN18, Mou13, New80b, Nie10, PP16, PM78, Reg93, Rho87, Rho90, Son14, Sta84, SL17, Sur98, TKT19, TL12, Tra89, Tra90, WX19, Ye11, ZWL15, ZBW12, dC15, dC18]. sorting [CW91]. Souls [Pat89]. Sp [Ber86]. Sp-modules [Ber86]. Space [BILP04, ADJ15, Adh13, AGR91, Bea85, CDJ13, Cl92, CR77, Das17, Das18, DTS14, Dok83, EB17, FLF75, HT12, How80, JVMCP19, JS15, LYZW12, MW18, MS88, MM09, MC19, MN13, Pat77, Rob75, RF19a, ST19, SA10, TD14, YGÇ19, ZMCN19]. Spaces [AW83, BR04, HLZ02, LT92d, dSP12, WS74, Wes87, Zha04b, AF12, ACMS10, Atk84, Ay84, BT13, BB017, Bar07, Bea85, BI97, BLP14, BZ89, BPR12, Boz97, CKS19, Cha79b, CL83, Che91, CLN13, Con77, DH17, De 08, DP09, DV19, Dok09, Dra10, Dra11, Dra16, Dra18a, Dra19a, Dra19b, EDKA07, Edw80, ESA18, EBB18, FGMSS19, FLR85, Fri97, Gil16, Gra80, GX17b,
spaces [Wan82, WWS19, Wes90, Wes95, YQ90, ZS05, ZCZ12]. Span [Zha01a]. spanned [Bun94]. Spans [How86]. spark [AB19]. sparse [CW20, Sol14]. sparsity [SM94, tHK17]. spatial [LMMR15]. Specht [MMR07]. Special [Abd20, LPT13, AG16, Bas17, CL91, CL17a, Dok09, GA18a, HS83c, Joh81b, JLL88, KS76, KV13, LT09, Ma15a, Mal95, New80b, Pnu80, Pop14]. specializations [MF77]. specific [Shi18]. Specified [Che03b, Ano79b, JKS79, Kap77, Kir14, PRS03], specifying [Joh77a]. Spectra [BP16, DWC19, ESA18, Goli16, LZ15a, LPT11, LM10, LZ14b, MOTvdD03, MGA17, YW19, BHC16, Bar08, BS17a, BDS13, BJS15, Ber05, CL17c, CD15, Cro18, CD85, DK17, Fri82b, Fri12, GR93c, GM90, JKD16, JP17, JMS15, Kra06, LS10, LLD17, Meh84, Mir18, MA15c, NP15, NP09, WZ13, XS18, ZLS11, ZG08]. spectrahedra [KRR18]. Spectral [CKM18, Flachb14, FJ01, Goh91, GS20, IS15, LLL16, LLF18, NG15, SRD19, TZ19a, Tos79, Tur02, WY20, WC12, XQ16a, Yiz02, Yiz03, ZB13, AAS14, ACMa17, BPD88, BEH19, BD84, BKL97, BBZ15, CCS16, CHQ18, Cos14, DFK19, DLS18, Din15a, DFN13, EAM19, FTZ08, Far94, FLZ07, FY1313, Fri93, GL11, GTZ75, GB11, GLS16, HRMP95, Joh77a, JN90a, Kir04, Koz17, LP07, LLW+11, LTT84, LS18, LMR94b, LT11, LT12a, LC14, LLP18, LS12, LS13, LL15, LZ17a, LZ18, LZ19c, LL10b, LH13, LDL17, Lon83, LSZ86, MH16, MP96, MAM15, MA15c, NP13, Pep11, Pep19a, Pep19b, PRS03, SQM99, SQH15, SSW15, SYZ17, SHS17, SZWB16, Sza09, TJ11, Tan13b, Til98, Ton87, U26, WSH+11, WH11, WZ18, W15, W18, WDJ10, XW19, XZL14, YSY17, YHS13, ZQC18, ZG11, ZWL15, ZL19, ZW17a, ZW17b]. spectral [dPN81, dP109]. Spectrally [BM12, CM07, GHT16, IS16, MIY2, ZHLZ13]. Spectrum [GM17, KL96, LLMT05, Rod03, Sen83, AN19, Ben18, BR10a, Boa13, BM15c, CP15, CIP17, DP17, Gil12, GT08a, HMO11, JX13, KP12, Kra05, KML95, RP90, So99, WW12, Xu93, ZZ16]. spectrums [Sin82b]. Sperner [Can80, Har84a]. spheres [Dok81]. Spherical [Gam00, CLL14, Da 88, Gam18]. spin [Dok81]. spinor [AF12, Ger82]. splines [DTS15]. Split [KADM10, EO15, Mar12]. splitting [LW17, ZV19]. splittings [CP81, JM13, SP15]. spread [AFTG19, FX12, NT94, SF12]. spreads [Tho92b]. SQB [JLL18]. SQB-tensors [JLL18]. Square [Bom02, CL74, JN80, MDW11, ZW10, AKS18, BL13, Din15b, Gre99, HL09, IK19, LLIW07, Nir11, dSP17, ST80, Slo16b, Slo18b, Sol80, Sta15a, XQ16b, ZWW10]. Square-zero [MDW11, ZW10, AKS18, dSP17, Slo16b, Slo18b, ZWW10]. squares [AS95, AAB17, Bur11, Caf13, DLQ18, Din98, Gra87, GK77, JS84, LW08, LW10, Pen15, Rie85, Rie87a, SMF95, Sin73, Sin76a, TH80, Vas86, 58
Wan15, Wan17b, Wu09, XQZ13,YL11, YLW15, YZL17. **SR [JXL15].** **SSOR [Neu84].** **Stabilizable [Ra¨ı14a, Ra¨ı14b].** **Stabilizer [AF11b, JP86].** **Stable [Fri84, GGL03, Ra¨ı14b, ES00, Jam88, Jam95, LC18b, ME18b, Sta84, Ra¨ı14a].** **Staircase [Hwa85].** **Stand [De 82b].** **Stand-alone [De 82b].** **Standard [MˇS02, CW11b, HQ18, Rem82, YWO07].** **Stanley [Har84a].** **Star [BH16, Cve95, MRD15, ACMS10, BS16, Bur95, Cha83b, Cha84a, Cha88, CBQW19, CL05, DPP17, Esh17, Fie90b, For79a, FS86, For88, FM78, Gib76, Gol92, GLP92, Har81a, Hwa85, Hwa91, Jeh74a, Jeh81a, Kir09, KS76, KSN15, LZZ17, LS09, Mal91, MKS84a, MR07, Mer98b, Min75, Min82a, Min84, Mou04, MAM15, MA15c, ME18b, Phu80, Pif87, Sen83, Sin73, Sin76a, Sin76b, Sin77, Sin80, Sin82b, Sin84a, Wal75a, Wan76, Wea83, Web83, Zha14a, dF13].** **Stochastically [Lon90].** **Stopping [Zar01].** **Stormer [HOT15].** **Straight [HT91b].** **Straightening [Wil99, CW89, Cha82, Mal92].** **Strict [Mum86c, CC98, Mum86a].** **strictly [BCKP10, CW16, J´oz15, Neu83].** **Striped [MOTvdD03].** **Strong [DS13, FG02, HQ18, LL11, Liu15, MO91, QH17, Ska17, Cir17, Har84a, HM19, Pan13, SSG12, TKT19, dB14a].** **strongly [ADRP14, BP90, BP92, BL93a, Cam14, DFK19, FG06, Gol06, Tan18b, YW10, YBCCW96].** **structurable [EKO14].** **structural [AAB15, BDV19, DP-W13, FS-W11, GPM98, HLZ11].** **Structure [Gur80, AMZ13, Boz97, FJ15, FJ09, GL85, Grz89, Heo16, HSM17, HM18, Kra05, KMS07, Kre16, LWZ15, LEH96, MHH96, Mar12, Mer78c, Min74a, NP09, RJ04, Tom19, ZZ00].** **structure-preserving [HM18].** **structured [BR01, Mag83, MMRR16, MS15a, YW16].** **structures [ABvW16, Hon19, LGB17, So90, WZH13a, WZH13b, Wil73, Wis12, vR11].** **study [CW89, Fri78, HRT15, Miss, TJ16].** **Sturm [GMZ17].** **style [Wat85a].** **Sub [CK17, AA12, ZZ10, WM17].** **sub-additivity [AA12].** **sub-block [BZZ10].** **Sub-defect [CK17].** **sub-long [WM17].** **subadditive [Tik98].** **subalgebra [NP19, SZ19, YWO07].** **Subalgebras [Ake93, DR18, BZ19, BT17, CW11b, CX12, CW12, GLOT13, LZ09, LCL13, Liu16b, Liu19, Ous15a, dSP11, WOW09, WW01, WL16a].** **subclass [RH11a, RH11b].** **Subclasses [Dra18b].** **Subconstituents [GWZ14, GWZ16].** **subdefinite [DN18, ND13].** **Subdirect
Sylvester-transpose [BS17d]. Symbiosis [NT91]. Symbols [GN02].
Symmetric [BS17c, BBM15, CA03, CD03, DS02b, GR81, JT04, JMP17,
LR96, Pat81, Pie85, Zha04b, All14, Bal14, Bal18, BL97, BS16, BS17b, Ben90,
Bén11, Ben74, BH74, BB75, BB15b, BLSV12, CL85, CFSGL18, CL92, Cle91,
CT09, CLNT17, CLN13, CK19, Coe96, CW93, DH11, Deu80, Dok75, DLL91,
DCLW19, Fan73, FJ15, Fit94, For87, GS06, Gih66, Gon17, HHC12, HWL92,
JKB17, JR09, KL19, KKR12, KN81, LR13, Lei95b, Li87b, fLLyP15, LM95,
LLL09, LL10a, LZ19a, Lim90a, Lim92b, Lim92c, Lim97, Lim10,
LT14, Liu92, LTT11, LGB17, Loe01, Lop11b, Lop18, MM05, MS85a, Mat92,
Mat11, Mer94, Min76, Mir18, MMM15, MAM15, MA15c, Neu74, Neu83,
New74, Nom73, NTU93, OP13, Ore19, Pat83, Pat86, Pat92, Pat08, Pat09,
Pat17, Pen15, PM81, RR91, Rei75, RW96]. symmetric
[Rod97, SG09a, ST91, Sou83, Sta14, Sta15b, SvW14, Til77, Tre87, Uhl79,
Wag87, Wim85, Zha05]. symmetric-indecomposable [BB15b].
symmetries [HWSH13]. Symmetrization [HO17]. symmetrize [Pat90].
symmetrized [BJ93, BD97, Gam18, Hol95, HT12, MC78, Mar78, MS83,
MC89, Mer77, WG91a]. symmetrizers [CdS03, Uhl13]. Symmetry
[DF95, HT92, HK16b, MS08, MR74, RC18, Wil81, Cha78, CL86a, CL86b,
CL13, DP90, Der83, Fin92, HLS18, Hil76, HK13, Jen17, Jun88, KCBR87,
Lim76a, Lim76b, Lim82, Lim90b, MC82, MC86, MM76, Mer78c, Mer79c,
Pat95, Rob77b, yTs6, WG91a, WG91b]. symmetry-antisymmetry [Pat95].
Symplectic [BB17c, DP90, Den05, Don91, FP17, LSY15, Mal92, MC19,
MMR90, New75, SM19]. synchronous [ZV19]. system [DH11, FHW16,
HW14, HM18, KO10, Lop18, Ned98, NF19, Pop17, SPKC15, Sti87]. Systems
[Gib89, JR93a, KS82, KT83, Lev74, BC83, Cam83, CW20, CJ12, CF15,
DP17, DH86, Din00, Doo16, EKO14, FNW18, GR93c, Hai92a, Hai92b,
HMAD13, HW15, HRT15, Hla17, JS84, JR93b, JSY14, KP11, LF15, Lia80,
LZ19b, Lop11a, MC17, MW19, NT91, Roh91a, ST86, Sin83, ST97b, Wer84,
WW80, XLL15, XJW17, YqS16].

T [Ano16b, Slo13c]. T. [Cha84b]. T=AB [AP74]. T=AB-BA [AP74].
tableaux [Ber86, Chu90, CPT15, Don91, KW92, KW93, Mal95, Rem82].
tails [Gol16]. Takagi [HZ12]. taken [Odo83]. tangent [BB13, Til77]. Tate
[AST07, GR14, Rom07]. Taussky [JZ95, Jol90, Sch77]. Taussky-Todd
[Sch77]. team [KS93]. technique [DLL19, FN14]. Techniques
[BT17, Whi75, Whi79]. Tensor [BB13, ILZ19, LLV18, Pat92, Wil73, Wil99,
Bal14, Bal18, Bar76, Boa13, Bre16, CL85, CKR18, CL83, CQW16, CKL16,
Der16, Der18, DM18, Din15b, DH16, DCLW19, FHL+14, Fow80, Fri82b,
Gam18, GWW15, Gil66, Hol95, HT12, HWSH13, Kru06, LL16a, Lee94, Lei18,
LN14, LZZ17, fLL+17, LZ19a, Lim92a, Lim15, Liu18b, MC80, MS88, Mar11,
McF79b, Mcf79a, Mer78b, Neu74, Ng14, Nir11, Nor95, Nor08, Pat87,
RSPT17, STME10, SWL13, Ven19b, WX19, Wes95, XJW17, YQ90, ZXF15].
Tensoring [Abd09]. Tensors [Lim01, MR74, BD97, BM17a, Cha78, CL95,
CBQW19, CK19, CCLN16, CPZ17, DP00, DM19, DF95, Dok75, Gau76,
GR10, GZH19, Hił76, HT92, HK16b, HQ14, HM19, JLL18, Jin17, KJB17, Jun88, KSMB16, KJ13, LPZ13, LZ01, LL16b, LZL16, LZT18, Lim76a, Lim82, Lim90b, Lim92b, Lim97, Lim10, Liu18b, MS08, MC78, Mar78, MC82, MC83, MC86, MC89, Mat11, MM76, Mer77, Mer78c, Mer79c, MSS18, Pat77, Pat90, Pat08, RS17, Roh77b, RC18, SL19a, SQH15, SQ15, Sta14, Sta15b, SLH16, SLH18, SMS15, SZWB16, SZZY18, yT86, Wan82, WG91a, WG91b, WLX16, WSZL17, XQ16a, ZL18, Zha19, dP74. **Term** [KS12, BSL01, BS16, Hua01, Kom10]. **terms** [Bal14, CHQ18, Kir00, LL15, Pan13, zSqSZ16, TW19, ZBW16]. **ternary** [BX11, BP09, KPS19]. **Test** [BC85, LB19]. **th** [LT91, LLS10, SSG12, yT86, vBW95]. **Thanks** [Ano10, Ano11b]. **Their** [SK03, AdFK15, ACJ17, BS15a, BS92, BS16, BS17b, BS17c, Che92, CL14, GKS01, GL16, GLS16, Hon93, HL18, Ilm16, Iop19, KS15, KT19, KE82, Kut19, Le98, Man91, MP09, MMRR16, Mia93b, Moh16a, MA15c, NSS85, Nor08, Pow88, Ric81, SU77, SLUG04, Sin93, SL95, TT12, TZ19b, Tia11c, Tia18, TMOvdD93, Tur02, Uhl99, Zha97, ZBW16, ZY08]. **Theorem** [LMMR15, Mac09, Adk95, AM15, Aha76, Ari16, AY95, BGK99, BGK00, Bla77, Bun91, Car19, Ch11, CPLH17, CC18, DFK19, DMV18, De 75, DP18, Dok17, Els78, FW13, Fe73, Gar75a, IGYW99, GJR97, GS77, GS83, GT11, GMW86, GPR84, GX17b, HL84, HJ19a, HJ19b, HS75, Hsu85, Hua09, IT16, JLL11, Kat75, Kow86, Koz17, Kr³87, KLO19, La80, LRR87, LN80, Lim76b, MMRR07, Mar78, MS82b, Mel18, Mer89, Nag17, Nas75, New76a, Pas15, Paz84, PSS15, Pul75, Ras17, Rei83, Rem90, Roh91a, Roh91b, Roh04, Roj99, SV14, Sun18, ST80, She77, Sin84b, Sou86, Tan97, Tan18a, TZ17, Tau73a, TS05, Tost97, Wes75, Wes81b, YLL90, ZLS11, Zha15b, ZN18, dPN81, HWY17]. **Theorems** [Jun88, AEV12, AyT84, Bar07, BGLS07, CM84, EL09, FD12, GL85, GL16, Gut01, Hon91, Hs178, Hua16, HWZ18b, ISCS11, KK18, LRT91, Li96, LM98, LN16, LW17, MP87a, Mar89, Mas10, MS81, ST86, Tan13b, XLL15, XFG14, ZV19]. **theoretic** [Dom14, KMH19, Mou04]. **Theoretical** [Far17, Ari16, Cla92]. **theorists** [Sch77]. **Theory** [Min83, Min87, Adk91, BOWdD95, BL80, CdS03, CW81, CD85, FW73, Gar73, Gau76, Gor83, HCS19, Joh82b, JSY14, KN81, Kri87, MMRR16, Mej19, MN96, MA15c, PT10, Sch77, SQH15, Ste82, Tho90, WW76, Wh179, Wis12, XQ16a]. **there** [Stu92]. **third** [BB19a, GM87a, Guo07, PLH01]. **Thompson** [Ano97b, Day97, GPR84, Hia94, New97, NT94, Tam85]. **those** [Pat83, WW12]. **Three** [GN02, MS82b, Mir81, Slo15a, Wil83, Abd09, AR15, AOTr11, BSÛ13, Cro18, Gue19, Hon09, Li84, LT12b, LZ15b, MGG15, dSP17, PGLM00, Sch79, TZH19, TH80, Vas86, Wri93, XL11]. **three-state** [Gue19]. **threshold** [KADM10]. **tight** [DO19, Kim13]. **Time** [Uh99, CW90, FK91, Gue19, HKT15, Kas85]. **times** [Che18, HL18, KN00, Zar01]. **Todd** [Sch77]. **Toeplitz** [ACI15, BG83, BdPN14, BzQ98a, BzQ98b, Bz99, CN08, CLNT17, Doo16, Elo18, FH89, GR91, GR93b, Gou13, Hi17, HM76, HM78, Ikr15b, JTW17, JS91, KL15, LL14a, Mel12, Poo17, Sol06, Til98, Tis93, Tre85, Tre86, Tre87,
Tricyclic [RY93]. Tridiagonal [SJ02, AC13, Ahn15, BG82, Den80, Doo16, MR13, MNN+98, SR17, YHCW14].


Tripotent [BSÜ013, LWB11b, Tia11a]. Trivectors [Dok83, Wes80, Wes81a].}

trigeminal

The threefold symmetry of a trigeminal nerve.}


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[JN92, MKS84b, Pok87, AE10, CLNT17, HJ87, HMN91, JL88, LT87, LT90b, LLW07, SAV01, Wan17b]. 

Unitary [ACI15, BL83, BD84, Bot79, Drn13, Ell93, Far90, Gr91, Grü76, GWZ14, GWZ16, GL97, HINS10, HH85, HH89, Hs09, Ikr15b, KC16, Kim91, LT89a, LT90b, LT90c, Li93, LPS08, RS07, Rai87, Sed11, Tho74, TM19, dB10, ZT12]. unitriangular [HS17, Slo13a].

Units [New93, CG19, Put82b]. unity [AAT16]. Universal [CR18, KT19, Tia11c]. unknowns [EÖ15]. unoriented [FTZ08]. unranking [VDW85]. unresolved [Min74d]. unsolvability [CS19]. update [WW12]. updates [SKP18]. uplets [BB96]. upon [Deu80]. Upper [CR77, Las91, Mel13b, ST94, Sha91, TD14, Tia17, TW19, BHC16, Bal14, Bou13a, CW16, CC18, CIP18, Do07, Foš05a, HC14, HLZ18, JKB17, JTU00, Kob06, LGA+13, MS08, dSP16a, Raj09, Rho94, SSG12, Sil99, ST96, Sol00, zSqSZ16, Sou03, TD16, TD19, WOY06, WZC11, WZL13, Wan16a, Wan19b, WLB19, Wan19c, YSY17, ZZZ16, ZWV10, Zhou16]. use [LT10]. user [Koh11]. Using [CG17, AFTG19, Bap88, DTSI15, DLQ18, EB17, GPM14, KW92, KW93, KMP+19, LLW07, MS16b, SPM14, Vo83a].

V [Ano16c]. valid [Sin81b]. valuation [AW13, Piz87]. valuations [GM90]. value [AS15, CQW16, CS19, CH87, GA18b, GHT11, JN90b, Lek91, MS81, SA10, YZ16, ZL18, Zha19]. valued [AW13, BG16, Bri89, DD10, EDKA07, FD14, Gi93, HSM17, HF18, MS81, Sil84, Tho89, Tia17, Tur02]. Values [Mir81, AHJ87, AD17, Bap87, BI95, CJK+13, GRSW92, HI17, JRMFMASS16, Joh75b, Kap77, Kar83, KNS96, sL19b, Li84, LT90a, LT92b, LT93, LCL14, MS85b, Mat92, Nie10, Odo83, ST00, Tag12, TH18, Tho75a, Tho75b, Uhl14, Zha00]. Vandermonde [Bra86, GKLRS82, Rie87b, WLX16]. Vanishing [BS18b, GQ06, MF77, Mer77, Pok87]. Variable [CSCH01, KY17]. variables [DS18, DS19b, Est80, Paz84]. Variation [Fris18b, FJ09, Ben90, BD84, BE90, BKL97, Deu80, Fri90b, FJ01, JP07, Kir04]. Variations [Yiz02, Yiz03, BM15b, MW80]. Varieties [IM18, BB13, Hut81, Pat86]. variety [BB19a, BCS14, GP15, Lim92b]. Various [CID16]. vec [HS81]. vec-permutation [HS81]. Vector [Adh13, BH90, SL15, Cla92, Con77, Das17, Das18, DPP17, DM87, Dok83, EDKA07, HS85, HF18, How80, HCS19, KL95, KMOE12, MW18, MN13, Pan15, Rös09, WWS19]. vector-valued [EDKA07, HF18]. Vectors [GMD85, BdPNDP17, Cj97, CJK+13, DMD092, JP07, Kir91, LK16, Nom73, RS17, Roh06]. Vein [Fe84]. verbally [Cen11, Per15]. Vergne [Ous15a]. Veronese [BB19a]. version [BGK00, BS17d, HL84, IT16, KS14b, LMMR15, MMR07, Mer89, MP94, MP95, Nag17, PSA14, Pas15, Tho89]. versions [AEV12, EL09, Orz84]. Vertex [AAAdFS19, KP02, MS87, LPH17]. vertical [MN96]. vertices [AEdF13a, AEdF13b, ACMR17, DdF15, HZ03, JST18, KNS96, LT12a, LZS17, LDL17, WH11, WDJ10, ZL19, Zho15]. via [BM17a, BB19c, DMV18, FS18b, Gau76, HRT15, Ikr15b, JMP17, Joh11, KNS96, LV18, Lek19, NS18, PSMA16, RW84, Sta15a, SZW16, SZBW16, Tau81, Uhl13, XQ16a]. Viennet [Foa79]. viewpoint [Dic84]. Virasoro
w.r.t [Cha96]. Waerden [Fri78, Fri82a, Lon80, Min82b, Sin81b, Sin84b].
Walk [Rod03]. Walk-regular [Rod03]. walks [Che18, FS14, HL18].
Wavelet [Mej19]. Wavelet-multipliers [Mej19]. ways [How83]. Weak
[EPR16a, EPR16b, MW19, Neu79, YF18, CFGM06, EBB18, IS15, JGS90, ND13, Wer86].
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Zhan:2000:SRP


Zhan:2001:SOO


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