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) [Zha20a, Che03b].
(1, 2, 3) [GK18]. (2) [Che95a]. (2, 2, 2) [SF17]. (2, p) [YD14]. (A, m) [GJR22].
(α, β) [YZ13]. (α, β, γ) [KO10]. (AXB, CXD) = (E, F) [YLW15].
(AXB, CXD) = (E, G) [YTL20]. (b, c) [SCK+20, Boa19, Dra18b, Dra22, KCICV18]. (e(x, y)) [Pre85]. (k)
[Cha77, Cha79a]. (k + 1) [BT06]. (k, l) [Rem90]. (k = 2, 3, 4) [Sta15b]. (m, C)
[MCL20]. (m, m − 1, 0) [HZ21]. (max, +) [HKT15]. (n + 1) [Sch78, Sch75].
(n, k) = (4, 2) [JLL88]. (n, m) [CM19]. (p, h) [DV18]. (p, q) [KL95]. (p, σ)
[ADRP14]. (qr) [Raw81]. (R, S) [ILLyP15, Pen15]. (s, p) − w [Ras17].
(√5 − 1)/2 [Sim95]. (T) [Che95b]. (v, k, λ) [Der83]. (Z_m)^* [How86]. −2
[Auo16b, BPS16]. 0 [HNS99, HLZ05, HL20, JS96, Wu09]. 0, 1 [MS79, BX07].
0 /∈ F(A^m) [JL90]. 1 [CM15, DFK19, Fra17, HNS99, HLZ05, HL20, JS96,
PSL$_n(F)$ [Gur97]. $Q$

[GZ22, LLC21, ND05, YGW15, YZW21, CNP05, CNP05, CNP06, CNP7, Gar79, KHG13, Li98, LN98, PV00, Sal12, Sal14, WHG17, YLCC19b, Zha97]. $Q N$ [GHL20a]. $QR$ [LL17]. $Q X$ [LZ22]. $R$

[AW13, LZ15a, LZ19b, BL93a, BT15, CK19, HH14, McC85, ZL19]. $R^n$

[Shk12]. $S$ [ALJ22, FJK22, GMZ11, GZ19, XL17]. $S(1^n, b)[P_b]$ [CRY95]. $S(n,p,2,2)$ [Hai92a, Hai92b]. $S(n,1)$ [CC19]. $s(\phi)$ [GW98a, GW98b]: $S_m$ [SS98]. $S_n$ [Di88, Reg87a], $\Sigma$ [BCKP10, Ben16, Lee16, Wan18]. $SL(2, R)$ [Sch79]. $SL(3)$ [Raj09]. $SL(\infty, \infty)$ [New82b]. $SL(n, K)$ [Wat84a]. $sl_2$ [AC13, Aln15, Gau76]. $Sp(2n, Z)$ [New85b]. $* \beta$ [RD12]. $T$

[NY21, WBZ14, BT08b, GL16, LM93, SRD19, vBW95]. $T^n$ [LZ12, LZ13]. $\tau$

[Han17, Meh84, Sha20]. $\theta$ [ZT12]. $U(\infty)$ [DM79]. $U_q(sl_2)$ [Aln11]. $W$

[Arm17, GCP20, SKM17, WMR16, ZT12, Ras19]. $W(12, 11)$ [KMS07]. $W(2, 2)$ [ZT12]. $W(m, n; t)$ [CCC21]. $W(n; 1)$ [CC19]. $X$

[Tia17]. $X = M^* X^{-1} M - N^* X^{-1} N = 1$ [Zha16b]. $X = (x_{ij})_{n \times n}$ [WM84]. $X^* Y + Y^* X^*$ [LL11]. $X^p = A^#(M^p(X^{-1} + B)^{-1} M)$ [LM22]. $x_{ij} = -1$, 0, 1 [WM84]. $A X Y = A^* [Wal75a]$. $X A Y = A^t [Wal75a]$. $X C D = f [LLL17]$. $X$

[LLF14, YZ13]. $X + M - N - A = I$ [DH03]. $X \rightarrow AX + XA$

[Bou14a, Bou14b]. $Z$ [JDD21, MNN15, QZ16, XL17]. $Z_2$ [DB14b]. $Z_{pr} Z_{pr}^*$ [AS15]. $||A||_2$ [Mer81]. $||A||_\infty$ [Roh00].

* [FdSV16, FA19, GV98, GdSV16, IT16, LWZ15, Ng14, NY21, QZ16, HJ20b].

*-algebras [Ng14]. *-crossed [NY21]. *-derivations [FA19, LWZ15, QZ16].

*-identities [GV95]. *-isomorphisms [IT16]. *-modules [HJ20b].

*-superalgebras [FdSV16, GdSV16]. *-congruence [HS09].


[Bec11, GR1, KP16]. -asymptotic [Geh15]. -based [Mit92]. -bases


-bilinear [MS82a]. -bistochastic [ME18b]. -by-


[GK18]. -cocharacters [Di88]. -colorings [Dia90a, SG90a]. -coloured

[KP12]. -commutative [FLT20]. -commutativity [H18, QH17].

-congruence [Lei91, LM93]. -connected [SH17]. -connectivity [Vo83c].

-continuous [ADRP14]. -contractions [FH89]. -convertible [Ber12].

-convex [DV18, Li86, LST89, Li87a]. -core [WLL21]. -cospectral

[BB19b]. -cospextrality [Tur18]. -CP [Heo16]. -cyclic

[BL93a, LDL17, MW15, WT16]. -deficient [LLF18]. -demiconpact


-dimensional [COK20, Far94, HMK22, MC19, YLL90]. -Divergence

03081087.2015.1020746 [Ano16c]. 03081087.2015.1107020 [Ano16b].

1 [LPH17]. 1-inverse [LPH17]. 10.1080 [Ano16b, Ano16c].
10.1080/03081087.2015.1020746 [Ano16c].

2-equlitable [LHF22]. 2-Local [AKY21].

3-BiHom [BMN22]. 3-tensors [LPZ13, SMS21].

6 [TT78]. 63 [Ano16c]. 64 [Ano16b, Slo18b]. 65 [Slo18a]. 67 [HJ19a].

7 [Ano79b].

= [Tia21].

Additivity [DW12b, QH11, AA12, Gro99, Har81b, Tia05a]. Addic [Kul22].
Adjacency [Hua10, Lim10, BR14, But10b, KFR17, KFR20, LY22a, MKS22, Sah21, WMFW21]. Adjacent [DKJ08, CW93]. Adjoint [AA20, CGY13, CLK16, CK20, DRW93, FJS14, HH16, HX21, Kyr08, LLMT05, LT13, Moo95, ST19, TZ06, Tan13b, Xs18]. Adjointness [FS19, Kit91b, Sin84a, WW20b]. Adjoints [Mar75, Rao18, BT22b, ER81]. Adjugate [Sin82a, dCdSA22]. Adjusted [MH12]. Adjustment [Har95]. Admissibility [BV16b]. Admissible [Aze99]. Admitting [Gar75b, MID17]. Adjustments [Mer79c]. Affects [Har81a]. Affine [BBT07, FP17, GX17b, Kes83, dSP16b, Wit11]. Afforded [Mer78b]. After [WW20a]. Aitken [Min74c]. Alcovéd [dP20]. Alexander [Min74c]. Algebra [DS02a, HJ19a, Mac09, Slo18a, Slo18b, SK03, Aln11, BPS00, Bed11, BLZ11, BV92, Boa13, Bre12b, BS18c, BF96, BSS12, Byt20, Car88, Car90, Cha90a, CKPL13, CWSZ17, CSY18, Ch122, DK11, De 82b, Din15b, FW73, Ga77, GPW22, GG22, Gor83, GR10, GPK94, GV87, Guz88, IKR12, Jac79, KS15, LCL13, Lip96, LZ12, LGB17, LGG19, LW20, MS85a, Ma’15b, Mer92, OWX90, Pat86, Pat89, Pow88, Prz92, TZ19b, TS19, UG21, Wad90, Wal79a, Woy06, WPW14, WLZ22, Yan18, YWO07, ZT12, ZWW10, ZW14, dBS00, Ano79b, Ano16b, Ano16c, TT78, MT84]. Algebraic [ASZ02, BJ96, BP98a, CIRW21, FKP03, Gur97, KN97, KP02, LST18, Mi122, Pat86, Tho90, WOW09, Wu05, Zel85, AA21b, BLPI12, Bar07, Bar12, Bén10, BGLS820, CK84, Din00, DLL19, DU21, Epk89a, FN14, Fie90a, GZY18, GL97, Haw05, HSX16, KS19a, KF98, Kir00, KMN01, KN04, Koi21, KN81, LRR87, Lim92b, LGB17, Ma’15b, New85a, NF19, PT10, Pie92c, Put82a, Put82b, TJ16, XSL15]. Algebraically [Had83]. Algebras [Boz97, Bre15, Cho03a, DS04, Fin92, Kay17, KT21, LR17, Muk74, MS02, ST15, ARH15, AF11a, AF11b, AF12, AC201, AM15, AN14, AS20a, AAP82, Ake83, AAB15, AELPM18, AG19, AC19, AG15, AH13, AXH15, AC21, AG18, AAA22, ALPM20, AKOZ20, AKY21, AK21, BHD10, BL10, BHD11, BWLL12, BD12, BW15, BB21, Bed10, BX11, BBS09, BR10, BB17b, BBX20, BBM15, Ben15, Ben16, BCS14, BCS18, BM14, BS18a, BDV19, BB14, BG16, BH13, BH16, BM17b, BM18b, BT107, Bre14, BE20, Bre16, BS22c, BH15b, BL11, BFIJ12, BFK18, Bun94, CMR20, CMR21, Caf13, CR15, aCC17, CGNT15, COK20, CCGO11, CGOT13, COK19, COKKK22a, COKKK22b, CPS22, CSV94, CLOK13, CR18, CRK21, Cen11, CC19, CW11b, CX12, CW12, CS21a, CS22]. Algebras [CZZ22, Ch17, Cho10, CJW19, CAP20, CIDK07, DM17, DM20, Di 88, DKS09, Dok73, DR18, Dreh3, DW12b, DW16, Egg95, EM15, EKO14, EL21, EPR16a, EPR16b, Far93b, FJK14, FZ17, FdM18, FA19, GLOT13, GP14, Gha12, Gha13, GMV18, GS95, Go07, GT11, Gra10, Gra11, Gur80, HK16a, HE20, Hil76, Hon19, HFS15, Hou17, HQ18, Huay96, HLH18, HZXL15, IM18, iop19, JP15a, JLZ12, JQS13, JQ15, JX13, Kan16, KK75, KKL20,}
KKL21, KP16, KPPV18, KPS19, KLO14, KZN22, Kov77, KLO19, La80, 
La84, Law19, LZ09, Lee15, LS16, LB11, LPS13, LF13, LLF14, LWXF15, 
Lim77, Lim92c, LJ11, LZ13, LCL14, Liu15, Liu16b, Liu16a, LL18, Lud19, 
Lud21a, Lud21b, LBV13, MJ07, MDW11, ML12, MPG2S1, MM92, MM05, 
Mar12, MHA17, MW21, Mil15, Mit10]. algebras [MRS10, Mos21a, Nas74, Ng14, NZK21, Nir11, NJP19, Oi20, ORT15, Pat96, 
PZGL22, Per17, Per15, Per19, PW78, Poo17, PRA22, PV20, QM21, QH11, 
Qi15, RH11a, RH11b, Reg93, RZ17, Rom89, SV14, SH21, SDVWT16, 
WME10, SX15, Shi18, Sin21, SL15, SpH01, ST99, Tag12, TRD16, TH18, 
TKT19, Tan18c, Tho92c, Vol22, WOY06, WXH09, WXH09, WY11, WJ16, 
Wan16d, Wan18, WLB19, Wan19c, Wan20, WX12, XWF15, YD14, YZ13, 
YF18, YZ20, Yan21, YW10, Zha15, Zha15e, ZL15, Zha16a, Zha21, ZWZ10, 
dTS20, vWZ19, LPS21, Ano22b].algèbres [MM92]. algorithm [AAB17, DCLW19, FT20, Fog73, GTLN18, Gre99, HKT15, HRT15, 
HM20, fLLyP15, LLC21, LLV18, LCL14, Liu15, Liu16b, Liu16a, LL18, Lud19, 
Lud21a, Lud21b, LBV13, MJ07, MDW11, ML12, MPG2S1, MM92, MM05, 
Mar12, MHA17, MW21, Mil15, Mit10]. Algorithmic [CSG22]. algorithms [Blo95, CW90, Che95a, HM18, Kul22, Mum86c, Stu92, WX19]. all-derivable 
[LLS13, XXL16]. allow [FHL+13, LHbL+15]. Almost [BP19, Rum97, CS19, GdSV16, ND05, PR12, WHG17, Zel75]. 
amost-commuting [Zel75]. alone [De 82b]. along [BB17b, Sza09, WM21, ZCP16, ZPC16, ZPC17]. alternate [Kuz05]. 
Alternating [Bro89, KM17, BS07, FHZ17, GQ06, Hor04, MN13, Mis17, Rei75]. Alternative [ST80, Bar07, Car20, Mel10, Mel18, Ve13a]. alternatives [Roh04]. Aluthge [And04, CM19, JLL07, KKY22, RS08b]. AM [Bak16]. 
MMRR09, Mej19, SRD19, SR22, Ste94a, Tia21, JXL15, ZY13, ZBW12, vD96]. Analytic [FS83, FlS74a, LCC17, Tur02, Fan83, FJS14]. analyticity [JMS19]. 
Andelić [KAE22]. Ando [FS15, HSW19, KMS21]. angle [Bal80, Zha13]. 
angles [Gal08]. Anisotropic [Pie74]. Annihilating [MW74a]. announcement [Tho90]. answer [GR14]. Answers [BHM76]. Anti [BFJ12, AF11a, AF11b, AF12, AHJ20, AHJ21, AAB17, BSZ13, Haj18, 
HS12, LK21, LLL09, LL10a, XSH18]. anti- [AAB17, LL10a]. anti-automorphic [LK21]. Anti-automorphisms [BFJ12]. 
anti-involution [AF11a, AF11b, AF12]. anti-Loewner [HS12]. anti-reciprocal [AHJ20, AHJ21]. anti-reflexive [Haj18]. anti-symmetric 
[LL10a]. anti-triangular [BSZ13, XSH18]. Anticommutative [Vol22]. anticommutator [DWC19]. anticommuting [Ito16]. Antiderivations 
[LM77]. antidiagonal [AFV100]. antiinvariant [Tam98]. antilinear
antiregular \[ BZ00 \], antisymmetry \[ Pat95 \], any \[ BL21, Hua10, LB19 \] Anzahl \[ GL16 \], AOR \[ CLW21 \], Appell \[ AAEAES20, Vei82c, VY21 \] appended \[ MN04 \], Application \[ MR12, Pat81, ABJ16, ALP94, BKL97, BC91, CDJ13, CH06, Che91, Fri75, JKD16, Li21b, ILZ[19, LC18b, MCIM21, Ng14, Paz84, Rau18, SR17, So99, Wan79, WSZL17, ZLS11 \] \[ BL21, Hua10, LB19 \] Applications \[ Fur08, Gor83, JKZZ20, Mer92, Whi80, AAPR19, Ati20, BAN12, BLZ11, BBP21, Brui79a, CGMR11, CV94, CKR18, Che92, Cro08, CCLN16, De 82b, DW12a, DHKSH08, Dra17a, FJS14, FLS88, FJK98, GCP21, GKS01, GHK16, GL16, GLS16, Gur98, HW13, HL18, HM19, Iov15, JZL20, KM19, KMRS89, KT06, LS16, LL16b, LPH17, ML21a, Mai11, MH22, MM20a, Mer94, MS12, Mou04, Mou13, SRW07, SQH15, ySpW17, SL95, Son14, TZ19a, TZ19b, Ter22, Tia01, Tia11a, Tia11b, Tia11c, Uhl79, Wan80, WH12, WL20a, WLL21, WY21, Wit11, YGC¸19, YZZ20, YSY17, YW09, ZZY16, Zha15a, ZMG20, ZPCZ16, vD96 \] Approach \[ ASZ02, ACMR17, Bar07, BS13d, BAN12, Bur11, CKLP13, Cla92, DP98, GHL20b, Hau12, HRMP95, KMH19, MVPS14, Mou04, RST22, SK15b, TX13 \] approximable \[ AGV19 \], Approximate \[ GL16, LKL21, How83, MMR07, Pas15, Sol14 \] Approximation \[ TD16, TD19, CFSGL18, Che91, CJ12, CDF21, Gog21, Hav88, HUZ17, KS17b, MW21, TR21, UZ16 \] approximations \[ DTSI15, DH16, Hali86, SF17 \] Arbitrary \[ Bom02, AAB20, BM12, CM07, DM19, Ful76, GS01, HWZ18a, HRT15, KW11, LLC22, MY12, Mee80, MW21, Moh16b, NJP19, Pea84, Uhl79, WM17, Wan17b, ZHLZ13 \] arcs \[ CW08 \] Arctic \[ BS17c \] area \[ MR12 \] area-preserving \[ MR12 \] Arf \[ Bae84 \], arguments \[ Neu83, Ral14b, Ral14a \] arising \[ DWL13, Lon76 \] Arithmetic \[ Sur98, GHT11, ST94, TLC16 \] Arithmetical \[ Lor00, BL93b, Hau12, Hon99 \] arrays \[ Bre12a, BS13, GP74, Sim83 \] articles \[ Ano97b \] articulation \[ BLPI2 \] Artinian \[ PRA22, HPV84, HPV88, LQ95 \] ary \[ Bed11, GR10, KP16 \] Aspects \[ Whi74, MM06, WW01 \] assignment \[ BHH86, CFP10, Gil87 \] associated \[ Ahn11, AO97, Ano22a, BCI13, BL93b, BT15, CMR20, Caf13, CLX22, Cha92, Chat93a, CKN95, DP00, Dia90b, DJL94, Fai97, Gam18, Hau17, Heo16, HS88, HT92, HK16b, Hon99, HH14, JLDS12, KH05, LTT11, MH20, MP73, Moo95, ME18b, NS21, OWTZ21, TLC16, TJI21 \] associative \[ Bas17, Bas19, G0l07, Hon19, Hua96, KKL20, KKL21, MP21 \] assuming \[ Wan20 \] Asymptotic \[ Har78a, Hout09, BSA17, CW17, DHB07, Geh15, Min80a, MFPSS12 \] Asymptotically \[ LA19 \] Atkinson \[ BBBS09 \] attached \[ ACMR17 \] attainment \[ Sai21 \] Audenaert \[ AkK17, Ala18, Zou20 \] Author \[ Bal76 \] Automorphic \[ Pea84, LK21 \] Automorphism \[ MW16, XWT22, ZWM17a, AF12, TW17 \] Automorphisms \[ BL11, DM13, Fos05a, GWZ16, HLZ02, Leg06, Lud19, OWX09, Wan16a, WWS19, YWO07, ZWM17b, ACl15, AKOZ20, BFJ12, EL21, HS17, Liu18a, Ter06, Ter09 \]
boolean [Bo01, GPK94, HKS94, KP92, Liu92, LB99, BS22b, KS12, LT14]. Bootstrap [BC06]. border [CJ20, DM19]. bordered [Tia10]. Borel [Chu84a, Shc21, WOW09, YWO07]. bosonic [Ter22]. both [DC20]. Bott [CLX03]. bottleneck [AD17]. Bound [Cal03, Pat03a, Zhl15, Bal14, BGV11, BD84, CR15, CDK20, Gil17, Guo20, Kir00, KMN01, Kir09, MF20a, Mar97, Pat09, QK92, Raj09, SC21, Sol00, zSqSZ16, TD16, TD19, WS18, WWW20, ZBW16, ZWS20]. boundaries [Ven19a]. Boundary [NS85, jAS15, jAS21, BD88, BGLSSS20, Cha18, Che14b, Che16, CN07, CN08, ERS12, GMZ17, GW08, LLS14, LLS16, NNT95, Nak95, San14, Spi00, TG09, Uhl14]. Bounded [NP73, Bou18, CLN13, Dra18a, DK21, GMV18, HJ20b, HL20, JKD16, KK22b, LS22, Loc01, MRS10, Pep19a, Pop17, Rho94, SMR20, Sai21, dNV19].

**Boundedness** [SXR18]. bounding [MH19]. Bounds [Cla92, GSS09, GRSW92, HHY22, KS07, LLS10, LL15, LL10b, LSZ86, Min80b, NS15, Radi2, Rum97, Sch92b, VM07, Wal11, WMFW21, WLM21, YJ21, YHS13, ADJAH22, AS12, Ben90, Ben11, BR19, CQW16, CW10, CW11a, CR77, CGH14, Dat16, DTS14, GLL18, GHL10, GM21, Hav88, Hon99, JKR17, Lás89, Lz11b, LGA+13, LL17, LS12, LS13, LZ17a, MC89, Mel13b, Mel19, MZ15, Men22, Mer81, Neu84, PLH01, Pat87, Rho87, Rho90, Rho94, Rob75, ST94, ST15, Sha91, SWL13, Sou93, TD14, Tia17, TW19, WMFR16, WW20a, YZ14, YSY17, ZYL14, ZVL18, Zho16].


Cartan-type [CC19]. Cartesian [QD85]. case
[Bal18, BFZ07, Caï93, CH12, DLL19, FJ09, Gut01, GLS13, JLL88, Laf78,
Lei83, PA10, Rai87, SvW14, tHK17]. Cases [JN90a, BCDHP10, Hia94, Laf78].
Cassini [Mel12, Mel13a]. Catalan [Ilk20, LM19]. Catalan-like [LM19].
categories [BF96]. category [Nas74, Smi83]. Cauchy [Boz98a, Boz98b,
Boz99, Bum91, Dra11, GT11, HKO16, Oku91, Sol06, zY11, dCdSA22].
Cayley [Are22, Bed11, CW81, CF21, CFL+22, FSFSO+14, Lud21a, Paz84,
Cebyshev [Dra10, Dra16]. center [For79d, Pat07, Zim98]. Central
[BD13a, CCKK22a, KKL21, UG21, AX18, CR18, CN14, Kim13, Lip96, Per15,
ZHZ11, ZWW22]. centrality [REG07]. centralizer [ASAS79, dSP11].
centre [AFJK17]. centroid [AFJK17, Pat07]. Centrosymmetric [CMP22, L22].
Certain
[Lev74, MR74, RJ04, AL21, BK83, BWF83, BP98b, BS18a, BD85, Cha88,
CCW20, CN08, DII97, FV97, FJM00, FX12, Fei75, Fr90a, Fr97, GZ76,
Gol79, HSX16, Hem93, HT92, Hul81, JN00, KM19, Ktt91b, LT88a, LT90a,
LP93, LLWX17, Lim15, Lon83, LSS86, MS83, MSO83, MS97, MHA17, MO13,
MGA17, MM76, MS18, Mou13, Ota13, Pat77, Pat89, Rai09, RA21, Rhode,
RF19b, Tom19, WHOX8, Wea83, VR11]. Cesáro [Geh15, RF19a, Rao20].
chain [AAKS21, AS11b, MS10a]. chained [LMLL17, SC21]. chains
[BC94, Gue17, Gue19, Gur98, HHI14, KII14, LT12b, ME18b, ORT15, PT10,
Sie99, Tan10, TTL11, TLL16, XL11]. change
[BCDHP10, Har81a, JLLS12, T21]. channels [Ter22]. chaotic [FJK98].
Chapter
[BLP92, LT92b, LT92c, LT92d, Lim92a, Loe92, McD92a, Pie92c, Pie92b].
character [DF87, FJK14, Fon89, HT91a, SS98]. characterisation
[BKS12, La84]. Characteristic [Ben74, BH74, Fit94, GB77, Ger04, KNS96,
KL92, Mir81, Nom73, Ric81, SL95, Tre87, AFJK17, Ami80, BS15a, BP98a,
BG79, CNW18, DP09, DM19, Ful76, GMZ11, HAI88, HZ21, Li84, Lit17,
MR18, Nor95, Nor98, Pat07, Prz92, Wad85, WW12, Zim98, dO75].
characteristics [Abd20, AHK92, HS89, HS91, Koh11, MMRR16].
Characterization
[AH13, BP12, CMR20, CSS21, FJK98, Geh15, HDJT97, HOT15, Liu16b,
Sed11, Sem97, WM17, AAS14, AXH15, Ben78, BS15b, Cha77, Dok73, Dom14,
FA19, HH89, HLZ11, JK10, KIR04, KL21b, KKL18, Koh11, LM95, LH13,
MH16, MS83, MHA17, Mcd82, NP80, Pan15, SPMR20, Sel81, Sh90, Ste94b,
TL13, TG09, TWZ16, WSH+11, Wbz14, WW15, Yua98, ZB13].
Characterizations
[AH10, An18b, BTO8a, De 78, FLS20, FdSV16, GWW20, HLH18, JQS13,
KCS21, LK21, Li95, LZ11a, LC18a, ML21a, Pan13, Ruc89, SRW07, SZWB16,
WL15, WZD16, Wer94, YZ13, ZXL16, ZP19, ZCP18, BJ96, BM18b, Die84,
E89b, FZ21, lop19, LST89, SSW15, IWW15, XCM20, ZWL15, ZH18, ZIC22].
Characterized [EMS02]. Characterizing [GKT97, Joh11, LZ14a, Qi15].
Characters [Leh76, BG79, Bri89, Fon92, Hol04, HK16b, Hua90, Kim91, Mer78b, Mer83b, Mit10, Pat93, Reg87a, Sta84, Zha21]. Charles [Ano79b]. Chebyshev [Ma'15b]. checking [RR95]. chicken [Pan20].


Circulant [GN02, Sjo93, Wat85a, BSA17, Bom02, BT15, BH20, DPP17, FL18, GKS01, Pal21, XJW17, ZQZ21].

Circulant-style [Wat85a].

Class [AHJ20, Ber02, BR04, MSZ04, jAS21, BK21, BL10, Bas19, Bea83a, Bea83b, Bea84, BR01, BM89, BZZ11, Cha78, Cha96, Cla92, CFP21, DD10, DS09, DL14, Ell95, ES76a, Fal97, FNBR96, GMW86, HM76, HM78, IOMA21, JP86, Jum88, KM19, KM17, LT93, Luo19, MRT16, MC82, Mer82, Mou13, PSMA16, Pal21, Phu80, Pok87, Rei75, Sed11, SGS05, Sol80, WG91a, Wat82, WY18].

Classes [GK02, MR74, AR15, ANo22a, BS18d, CL86a, CL86b, DP00, DF95, FJM00, Fie95, GCSC20, Hii76, HT92, HK13, HK16b, Hon99, KSBM16, KCBR87, KS76, Kuo04, Lim76a, Lim76b, Lim82, Lim90b, MS08, MS83, MS083, MS86, MH20, MM76, Mer78c, Mer79c, Mos20, ND05, Pop14, RH11b, Rob77b, RC18, S1188c, Si90, Si93, S96, SMM22, yT86, Tau81, Tra89, Tra90, W91b, Zhou16].

Classical [CK20, HZH20, CW81, C1Y13, CL86a, CL86b, DO00, DF95, FJM00, Fie95, GCSC20, Hil76, HT92, HK13, HK16b, Hon99, KSBM16, KCBR87, KS76, Kuo04, Lim76a, Lim76b, Lim82, Lim90b, MS08, MS83, MS083, MS86, MH20, MM76, Mer78c, Mer79c, Mos20, ND05, Pop14, RH11b, Rob77b, RC18, S1188c, Si90, Si93, S96, SMM22, yT86, Tau81, Tra89, Tra90, W91b, Zhou16].

Classification [CLOK13, Dok83, GR93b, Hai88a, Hai92a, JST18, Kar90, MR17, RH11a, Rom89, Shi18, Tia21, TJ21, COK20, CF15, Hai97, Koo95, Lia80, MC19, SOL05, SOL16, SLH16, SLH18, dLP20].

Cleavages [dLP09].

Clifford

Clines [Mos15].

Cline [Mos15].

Cline [Mos15].

Closedness [CLP22, LD17, SXR18].

Closure [BZ95, BA15].

Clover [WW15].

CMP [XCM20].

Coefficient [BV16a, DH86, HT12, LLCC22].

Collatz [Zar01].

Coalescence

Coalgebra [Wis12].

Coalgebra [Wis12].

Coalgebra-graphs [Pan17].

Coalgebra [Wis12].

Coalgebras [Iov15, ML16, Pan19, Pan20].

Coalgebraic [Wis12].

Coalgebroids [dro15].

Coalgebra [Wis12].

Co-flags [Mil15].

Co-flags [Mil15].

Cocharacter [Car88].

Cohomology-decreasing [BCS18].

Cohomology-decreasing [BCS18].

Coincidence [BT22b].

Coinvariants [CNW18, MCC124].

Collatz [Zar01].

Collage [dNV19].

Collage [dNV19].
[LR89]. color [KP16]. colored [SGS05, SG09b]. colorings [Dia90a, SG09a]. colour [Zha15c]. coloured [KP12]. Column [BZ90, GZ99, SK03, BT13, BCdHP10, FV97, HK94, LSOvdD95, MSS18, Mum86b, Sal79, SS12]. comb [Go12]. combination [BB06, BZZ10, For87, Pat83, PU15, Xu15].

combinations [BB20, BT08b, BLZ10, BR10, BSÖ13, Den14, ES98b, FD12, For88, IK18, KKR12, LD17, LWY11, LWB11a, LWB11b, MM90, Tia11a, UÖ15, UPO16, ZCW21]. Combinatorial [Tra90]. Combinatorial [AD17, BM18a, BM18c, HS91, Tra89, CW98, CR95, ER90, RS18, Reg87a, Wan79, WSO1, W13, BM19b]. combined [BGGS17]. Comment [Gro96].

comments [TT78]. Common [BDK+05, GKL82, Son14, Bar80, BKS12, DMuO92, JP15b, JN90b, TT06, Wel87, XW22a, Zha04c]. commutant [BBEL18, JS94]. Commutation [XHL20]. commutative [BB20, BT08b, BLZ10, BR10, BSÜ13, Den14, ES98b, FD12, For88, IK18, KKR12, LD17, LWY11, LWB11a, LWB11b, MM90, Tia11a, UÖ15, UPO16, ZCW21]. Combinatorial [Tra90]. Combinatorial [AD17, BM18a, BM18c, HS91, Tra89, CW98, CR95, ER90, RS18, Reg87a, Wan79, WSO1, W13, BM19b]. combined [BGGS17]. Comment [Gro96].

comments [TT78]. Common [BDK+05, GKL82, Son14, Bar80, BKS12, DMuO92, JP15b, JN90b, TT06, Wel87, XW22a, Zha04c]. commutant [BBEL18, JS94]. Commutation [XHL20]. commutative [BB20, BT08b, BLZ10, BR10, BSÜ13, Den14, ES98b, FD12, For88, IK18, KKR12, LD17, LWY11, LWB11a, LWB11b, MM90, Tia11a, UÖ15, UPO16, ZCW21]. Combinatorial [Tra90]. Combinatorial [AD17, BM18a, BM18c, HS91, Tra89, CW98, CR95, ER90, RS18, Reg87a, Wan79, WSO1, W13, BM19b]. combined [BGGS17]. Comment [Gro96].

comments [TT78]. Common [BDK+05, GKL82, Son14, Bar80, BKS12, DMuO92, JP15b, JN90b, TT06, Wel87, XW22a, Zha04c]. commutant [BBEL18, JS94]. Commutation [XHL20]. commutative [BB20, BT08b, BLZ10, BR10, BSÜ13, Den14, ES98b, FD12, For88, IK18, KKR12, LD17, LWY11, LWB11a, LWB11b, MM90, Tia11a, UÖ15, UPO16, ZCW21]. Combinatorial [Tra90]. Combinatorial [AD17, BM18a, BM18c, HS91, Tra89, CW98, CR95, ER90, RS18, Reg87a, Wan79, WSO1, W13, BM19b]. combined [BGGS17]. Comment [Gro96].

comments [TT78]. Common [BDK+05, GKL82, Son14, Bar80, BKS12, DMuO92, JP15b, JN90b, TT06, Wel87, XW22a, Zha04c]. commutant [BBEL18, JS94]. Commutation [XHL20]. commutative [BB20, BT08b, BLZ10, BR10, BSÜ13, Den14, ES98b, FD12, For88, IK18, KKR12, LD17, LWY11, LWB11a, LWB11b, MM90, Tia11a, UÖ15, UPO16, ZCW21]. Combinatorial [Tra90]. Combinatorial [AD17, BM18a, BM18c, HS91, Tra89, CW98, CR95, ER90, RS18, Reg87a, Wan79, WSO1, W13, BM19b]. combined [BGGS17]. Comment [Gro96].

comments [TT78]. Common [BDK+05, GKL82, Son14, Bar80, BKS12, DMuO92, JP15b, JN90b, TT06, Wel87, XW22a, Zha04c]. commutant [BBEL18, JS94]. Commutation [XHL20]. commutative [BB20, BT08b, BLZ10, BR10, BSÜ13, Den14, ES98b, FD12, For88, IK18, KKR12, LD17, LWY11, LWB11a, LWB11b, MM90, Tia11a, UÖ15, UPO16, ZCW21]. Combinatorial [Tra90]. Combinatorial [AD17, BM18a, BM18c, HS91, Tra89, CW98, CR95, ER90, RS18, Reg87a, Wan79, WSO1, W13, BM19b]. combined [BGGS17]. Comment [Gro96].

comments [TT78]. Common [BDK+05, GKL82, Son14, Bar80, BKS12, DMuO92, JP15b, JN90b, TT06, Wel87, XW22a, Zha04c]. commutant [BBEL18, JS94]. Commutation [XHL20]. commutative [BB20, BT08b, BLZ10, BR10, BSÜ13, Den14, ES98b, FD12, For88, IK18, KKR12, LD17, LWY11, LWB11a, LWB11b, MM90, Tia11a, UÖ15, UPO16, ZCW21]. Combinatorial [Tra90]. Combinatorial [AD17, BM18a, BM18c, HS91, Tra89, CW98, CR95, ER90, RS18, Reg87a, Wan79, WSO1, W13, BM19b]. combined [BGGS17]. Comment [Gro96].

comments [TT78]. Common [BDK+05, GKL82, Son14, Bar80, BKS12, DMuO92, JP15b, JN90b, TT06, Wel87, XW22a, Zha04c]. commutant [BBEL18, JS94]. Commutation [XHL20]. commutative [BB20, BT08b, BLZ10, BR10, BSÜ13, Den14, ES98b, FD12, For88, IK18, KKR12, LD17, LWY11, LWB11a, LWB11b, MM90, Tia11a, UÖ15, UPO16, ZCW21]. Combinatorial [Tra90]. Combinatorial [AD17, BM18a, BM18c, HS91, Tra89, CW98, CR95, ER90, RS18, Reg87a, Wan79, WSO1, W13, BM19b]. combined [BGGS17]. Comment [Gro96].

comments [TT78]. Common [BDK+05, GKL82, Son14, Bar80, BKS12, DMuO92, JP15b, JN90b, TT06, Wel87, XW22a, Zha04c]. commutant [BBEL18, JS94]. Commutation [XHL20]. commutative [BB20, BT08b, BLZ10, BR10, BSÜ13, Den14, ES98b, FD12, For88, IK18, KKR12, LD17, LWY11, LWB11a, LWB11b, MM90, Tia11a, UÖ15, UPO16, ZCW21]. Combinatorial [Tra90]. Combinatorial [AD17, BM18a, BM18c, HS91, Tra89, CW98, CR95, ER90, RS18, Reg87a, Wan79, WSO1, W13, BM19b]. combined [BGGS17]. Comment [Gro96].

comments [TT78]. Common [BDK+05, GKL82, Son14, Bar80, BKS12, DMuO92, JP15b, JN90b, TT06, Wel87, XW22a, Zha04c]. commutant [BBEL18, JS94]. Commutation [XHL20]. commutative [BB20, BT08b, BLZ10, BR10, BSÜ13, Den14, ES98b, FD12, For88, IK18, KKR12, LD17, LWY11, LWB11a, LWB11b, MM90, Tia11a, UÖ15, UPO16, ZCW21]. Combinatorial [Tra90]. Combinatorial [AD17, BM18a, BM18c, HS91, Tra89, CW98, CR95, ER90, RS18, Reg87a, Wan79, WSO1, W13, BM19b]. combined [BGGS17]. Comment [Gro96].
[CJ20, BC05, BZ90, dAB21, BR01, BS18c, CKP16, Cao19, CP18, CP21, Der16, Der18, DJ98, DJK08, DCLW19, Esh22, JJK95, JN14a, JU00].

**Completions**
[GMR81, Lud21a, CKGP21, GKV89, GRSW92, JR84, JW91, Woe93, Woe97].

**Complex**
[Ano79b, Bal78, CKGP21, CN04, JKS79, KFR17, Mac09, MY12, Mir81, Sah21, Wal73, ABC18, Bal14, BPR20, Cha90a, CT09, CH87, CL74, DL92, Dok93, Gór22, HK21, HHY22, HZ12, HQ18, JVMCPR19, KL19, Li84, LT88d, LM93, Lyi22a, LHS+21, LZ19b, LT07, MF92, MKS22, RH11a, RH11b, RS06, Rom89, Sin82a, Sin84a, ST91, ST96, Soa08, Tan13b, Tan18c, TMH21, Tie16, WL18a, Wes81b, ZH22, tHK17, KSU22, KFR20]. **complexified** [Shi18]. **complexity** [BZ89, Con90, Har85].

**Complic** [Bal79c].

**Component**
[BCS14, Das17, Fan73].

**Components**
[Bén10, KF98, Lla96, Mum86a, NS92, NS93, Vo83b].

**Componentwise** [Rum97].

**Composite**
[Que08, KW93].

**Composition**
[Tan81, TH80].

**Compositions**
[AY93, BM07, Wil73].

**compound** [dCdSA22].

**compounds**
[BC91, TMOvdD93].

**Compressed** [DJS21].

**compressing** [EM15].

**Compression**
[AP04, GW04, JM85].

**compressions** [Far94].

**Computation**
[CN21, K11, SP18, BL21, Ma'15b, Mi114, Uhl14].

**computational** [Zel85].

**computations** [Uhl20].

**Compute**
[YZ16, FP17, McS99b, vD96].

**Computer**
[MP87a, KCBR87].

**computer-generated** [KCR87].

**Computing**
[Car06, CD15, HJ20a, Ous15a, P91, Rem88, Roh00, Sta15a, Uhl13, FH17, GA85, GK18, KPL+09, LL22].

**contrams** [BE20].

**concave** [AHK19, AA12, JK22, Tam02].

**Concavity** [BD85, Mat90, Sra20].

**concepts**
[AR15, Shi15b].

**Concerning**
[Har96, Sin80, Sin81a, Sin93, ST99, Tan74, BK87, GT79, Gyi78, KNX93, KNX95, Mou13, Sin82b, TT78, TH80, Zou12].

**Concomitants**
[BB96].

**condensation** [Cal91].

**Condition**
[KK22b, LPS09, SLW21, AADD18, CC98, DS13, DLQ18, DKK19, HB83, Jam88, Jam95, LLW+11, LL17, Liu17, Pal79, Rou98, Zim98].

**Conditional**
[HS12, NS22, BG16, FH17, JS19, JE21, Joh82a, PSW18].

**Conditionally**
[Józ15].

**Conditioning**
[YM21, Que08].

**Conditions**
[Gam18, Ibr00, JKH20, JNT96, Lim92b, PH03, AE10, jAS15, jAS21, BMGMC15, CHQ18, CIRW21, DJK08, EOvdD09a, EOvdD09b, GMZ17, Gue17, Gue19, HB83, Hua16, Ikr15a, LLF18, LOO22, Lu22, Mar90, Mat11, Mil22, Oku93, Pet09, SQ15, Tia05a, Wan82, ZW17b].

**Cone**
[KS02, LMR00, And96, FU20, Hil07a, Hil11, Pat03b, TB92, HY05, Zha20b].

**Cone-Systems**
[KS02].

**Cone-transitive** [LMR00].

**Cone-Systems**
[KS02].

**Cone-transitive** [LMR00].

**Cone**
[FM73, HS88, SS79, Bar74, Bar78, BC80, BKS22, CL14, Hil07b, JP17, NS85, NST91, SH21, Tam77].

**conference** [Ano79c, LRT08].

**configuration**
[NS09, Nat13, SG06].

**configurations** [TL13].

**conformal**
[acC17, CSY18, DH18, GZW20, Hon19, T919b].

**Congruence**
[LT92a, Lei98, MA75, AC15, Bot97, FJ01, FJ09, GL97, HH89, HS93, JR99, Le91, Le95b, LM93, LPWX10, Tam85, The88, Wat90, Wil83].

**congruences**
[HH85, Ikr15b].

**Conjecture**
[Kit81, Wan21, ABGP21, AYT83, BMD87, BD96, Bri89, Bui11, Cha89,
Convexity [Hwa91, ST96, AY84, Dra21b, IK20, KMRS89, Lék91, Li96, Man87, SP87, Sra20, Tam97].
convolutional [La 19].
coperturbation [AFM13].
copies [Bad19].
copositive [BS17e, FJZ21, Hil18, SM20, SQ15].
coprime [LT12a, Tan10, TLL11, TLC16, XL11].
coproducts [Nas74].
copson [CW10].
copquaternions [FMSS19].
coranks [Ger86].
corona [CL17c, LZ14b, WZ13].
coronae [LPH17].
coronas [BS17a, DP17, LLZ22, Sta10, TYC21].
corrections [Ano20a, Ano20b, Ano22a, Cal99, –Dok93, Tra90, CKL²+21, MS16b].
corrector [Chu84b].
correlated [Sma17, TJ16].
correlation [JT04, Pat03a, PV20, Dat16, Lov21].
correspondence [Foa79, Wat86].
corresponding [Bén10, CL86a, CL86b, FDF14, Har81a, Kyr08, Kyr11, LD19, SLUG04].
corrigerendum [Ano17, Ano22b, Bou14b, BM19b, HJJ19a, KFR20, Rail4a, Slo18a, Slo18b, SLH18].
cosets [Hol04].
cospectral [BB19b, BBCD21, But10b, HS95, LV18].
cospectrality [Obo16, Tur18].
cosquares [Bal78, Bal79c, Rad80].
costandard [GMZ11].
cotangents [Cal95a].
counterexample [DJ89a, EF98].
counterexamples [BH74].
counterpart [Lon97].
counting [KK90, Ota13, Sur98].
coupled [jAS15, BS17d, Pen15].
covariance [TJ16].
covariances [Kan94].
covariants [Bed10, BB17c].
covectors [MC19].
cover [BS16, Wan21].
covering [CS95, ST86, Fer09].
coverings [But10a, MS10c].
covers [CG16, Sch95].
cowen [Bol12].
cp [SMBB²+15, Heo16, Shi16].
cp-rank [SMBB²+15, Shi16].
cramer [Che93b, Che93a, Kyr08, Kyr11, Wer84, WY18].
criteria [GB77, HM19, Joh14, WSZL17].
criterion [BGdH92, Dix79, GPM98, JP15b].
critical [Cal97, Cal99, Gei78, KOvDD09, AVVA18, DLL19, DH16, HJP17].
cross [Dat16, Joh14, ZHH09].
crossed [NY21].
cryptology [MZ17].
cubic [BH20, GR10, HKT15, LR17].
cubics [Wri93].
curvature [Jac79, MZ91].
curves [CN21, Ma`15b].
cut [Fer10a, HZ03, KM98, WH11, Zhu15].
cut-points [KM98].
cutpoints [Kir00].
cuts [Mer94].
cutset [BS93].
cutting [Ost74].
cycle [BP90, HO17, JJK95, Kir09, Vo83c].
cycle-based [Kir09].
cycle-sums [HO17].
cycles [CT16, DHKS16, FdF09, KK19, LN16, SG09b, WSH²+11, Wil93].
cylic [KW89, BL93a, BS17d, BP09, CP15, CP18, CP21, Hua01, Lew77, LEH96, LDL17, MW15, MS10b, SMF95, WT16].
cyclotomic [New93, Zha21].

D. [KM84].
d [YN11].
d'amorçage [BC06].
damped [YZC21].
data [BCR91].
Davis [CNP06, ZMCN19].
doković [Lon81].
decidability [GB77].
Decomposability [Wes96, LK16].
Decomposable
Decomposably [GP96]. Decomposing [Sza09]. Decomposition [AJL14, CM85, LP02, YQ90, CM92, CH87, DO20, FLS88, GHT16, HT10, Koi21, LK16, Li21b, Mar78, Mar18, QD85, Roi99, Rom20, Smi83, SZ19, Sta15a, TZ19a, Ter22, Tia11a, WL20a, jXL15, YZ16, Zha15a, ZZC17].

Decompositions [CKS19, Fen10, BB17a, Fur08, GCSC20, GVS96, Hor04, HLZ18, Kru06, LMMR01a, Sta20, YLX20, YC19]. decrease [Sin76a]. decreasing [BCS18]. Dedekind [FSvW11, GMR81, Tan18a, Wag87]. Dedication [Tho92a]. deduction [Joh82a]. defect [CK17, SU77]. Defekt [SU77]. deficiency [LS22]. deficient [LLF18]. defined [ES76a, Erd22, GP06, HSM17, MC80, TR21].

Degree [FdM18, AO78, Bak84, Cha92, Cha93a, Che92, CKS20, DPP17, Dru15, DWL14, Fan73, Fan92, Fla75, FS15, FSY16, GMZ17, GJMWW6, Har78b, HBP18, HM18, JN80, JP87, Józ15, LLMT05, LL14b, LSX19, Mai11, MK16, Mol15, Pat92, ST94, Zha04c, Zha16b, ZL21]. definiteness [Cha90a, Ibr00, LS14b, Sun20]. definition [CKP09]. deflating [DLL19].

definition [Ami11]. Deformations [ZL15, AC19, Bre17, Zha15c].

degenerate [Ait19]. Degenerations [AA22, KPPV18, AH20, Ano22b].


dendriform [Bre17]. Dénes [Aha76]. density [BLX18, GHL16, MN12].

dependence [CPKK22, DU21]. dependencies [Knu85]. dependent [GMZ17, dCH21]. depth [Vo83c]. depth-first [Vo83c]. Deree [Cal03].

derivability [CW11b, CW12]. derivable [AC21, Gha12, JL12, LPS13, LF13, Wan17a, Zha16a, ZW14, ZXL16].

derivation [Bou06, Hou17, MS78, WHX08]. Derivations [AC21, CHE83a, GPW22, Lim92c, Vla22, WOY06, YW10, ADD18, AH10, AH13, AXH15, AA20, AKOZ20, AKY21, AK21, Ben07, Ben15, Ben16, Bre16, CMMR20, Cal94, CGOT13, CX12, CZZ22, CQ22, Da94, DD15, EPR16a, EPR16b, FZ17, FA19, Gog21, JLZ12, JQS13, KP16, Khr16, KZN22, LWZ15, Lec16, LCL13, LZ11a, LW11a, LB11, LL14, LL10a, Lin21, LL11, LCL14, Liu16a, Liu17, LL18, Liu19, Lon76, Lud19, MJ07, Mag13, Mag14, MW74b, MA75, NZK21, Q15, Z16, ST99, TRD16, WY11, Wan18, Wan20, XW12, YZ13, YF18, Yan21, BD22, ZWZ10].

Derivative [Tur02, Chu22, Dec74, DM87, MS81, OvdD77]. derivatives [Car20, KE82, Vei82c]. derived [CHFC19, EB17, HS91, Ilk20, NJP19, Ogu20, SK15b]. described [Gon17].
Designs [Chu84b, PS22, WM84].

Determinant [CD03, Nag17, BS15b, BM07, Cal91, CK20, FV97, FLR85, Han19, HS96, Hon91, JOTvdD94, Kua18, KAE22, Lan81, LSOvdD95, Lim79b, Lit17, LC83, McD82, Min77, QK92, Rou98, Vei82a, Wen06].

Determinantal [BJ94, CNUV16, Kyr11, Kyr21, YW09, AdF21, BP98b, BM18a, BP18, Dru14, DL14, HL84, Hon92, Hon93, Li92, LZ17b, Lon97, New79, New82a, Vei83a, YLC19b, dC13, dC15, dC18].

Determinants [BT15, HZ11, LT12b, MN80, Mah82, New80a, PA94, Pri78, SVW14, TT12, Tan14, TTT8, BMD87, Bla77, ES73, Est80, FW86, Gar75b, Hon99, HH14, JNT96, LPS08, LM19, Loe87, MS89, Min80b, Odo83, San14, Sim83, Sto79, TX13, Tho75a, Vei82a, Vei82c, Vei83a, Vei83b, WW20b, dCdSA22].

determination [CLX22], determine [LL16b], determined [Bre12b, BH15b, CSG22, Gha13, Gra10, Gra11, MA15c].

Determining [BMGMC15, Kas85, Vo83a, AS12, Mos20].

Developable [BB13].

Developments [CD85].

Deza [AGH*22].

Diagonality [Tan20a].

Diagonal [BGGS17, CS18, DV19, Wan76, Bal79b, BBP78, BOvdD91, BKS12, BC20, BS08, Bur95, DHS95, DD12, FS89, GS21b, HH85, Hon91, Ikr15b, JR09, JLDS12, sL19b, Lee18, LM89, Lon90, Mir92, Moo76, Neu83, Pat82, Pok87, Pri78, Sha91, Sto79, TTT8, WOY06, WC12, Zab89].

Diagonability [Kob06].

Differential [DU21, LGG19, BBT07, BZZ11, Cam83, CW17, DTSI15, DDA20, Fin92, HSX16, Lon76, NS99, NT91, PZGL22, Wit11, WW20b, XSL15].

diagonizable [Tur02, KS16, Nie14, WW12].

Diagonization [AY74, MS10b].

diagonals [Uhl79].

diagonally [BCKP10, LM11, SC21].

Diagonals [EM73, Pi87, BS08, Las91, Web83].

dialgebra [ZCY22].

dialgebras [BPSO12, FSFSO*14, KV13, SDVW16].

Diameter [JS16, Tsi83, CLN12, GL11, GWW20, HLW*21, LP07, TJ11, VH95, WH11, XSW21].

Diassociative [Bre17].

Dickson [FSFSO*14, Lud21a].

dicyclic [CFL*22, DP00].

Dieudonné [BGLS07].

Differenciation [Per19].

differences [SS96].

Difference [KL03, AHT85, BB19c, DH17, ESAJ18, FN14, HP90a, Ig199, JvdD91, MM20a, MM20b, MIA93a, Sa14, SES21, SIl88c, SIl88b, SS96, TC13].

differences [TX13].

Different [ZIC22, Bén10].

differentiability [BBX20].

Differential [DF30, Nom73].

differential [CFP10, Nom73].

Dilatation [GW98a, JE21].

dilations [CL00, GC22].

dilute [Din15a].

Dimension [AS20, Gra80, How80, Lim00, AS20a, BM14, BM16, Cen11, CL86a, CL86b, CR77, Con77, GPK94, LHS*21, MM09, MN13, NIP19, 20
OWTZ21, Pam87, Rob75, Rom89, TH14, Wri93, ZCY22. **Dimensional**

[BR04, ySpW14, ARH15, AELPM18, ALPM20, BC83, Bar07, BB14, COK20, Car88, CDJ13, CW11b, CX12, CL17b, Das17, DH20, Dok83, Edw78, Fur94, Gol79, Gol07, HMK22, KK75, KL15, LF15, Liu94, Lud21a, MC19, ME21, Nag17, Nir11, Pas15, Rai87, RH11a, RH11b, RŠ08a, RŠ09, Seš81, Tal17, Tan18c, WC12, YLL90, dTS20]. **Dimensionality** [Hil76].

**Dimensions**

[DvE20b, MR74, BMFPBSS21, Cas91, DBG18, Jon78, MO91, MM76, WL16a, WL16b, DvE20a]. **dimer** [Min80a].

**d’intégrales** [BC06].

**direct** [BHK10, Fow80, Gol92, Hol84, Hol85, KLO14, KL13, LW10, RC18, Tho92c].

**directed** [BBG22, Bru82, Guz88, JKKC22, Kir14, Lee98, Wu05, XQ16a].

**direction** [KM17].

**directions** [Abd20].

**disaggregation** [HUZ17].

**disc** [CPLH17].

**Discontinuous** [GL01, Fri97]. **Discriminant** [Pie79].

**Discriminants** [Wad85, Edw80].

**discs** [AK94, GW12]. **Disjoint** [Bru79b, CT16, Tia11a, WSH+ 1].

**Displacement** [Ma22, Boz97]. **Disproof** [Gib87].

**dissipative** [JK22, KS19b, ML21b]. **Distance**

[Aue95, BHD11, BCEM12, CFL+ 22, HW08, LT89a, LLD17, LWL21, LH21b, Rum97, Sha15, ZW17a, AAKS21, AW07, ABGP21, AAB20, AH16a, AKB21, Aue98, BS11, BK17, BS17a, CC14, CDFG06, Cos14, DFK19, DAH19, DMV18, Dod13, DIF13, GB11, HS95, HS16, JJK95, KSL22, KLKP17, LS21a, LS12, LS13, LL15, LZ19c, LT13, LXG17, LY22b, LHH18, MS89, Mou20, NP13, Pat07, Rho92b, SP7, TG09, WZ18, XSW21, XLZ14, XZ16, XLS20, ZG11, ZBW16].

**distance-** [DFK19]. **distance-2** [DFK19].

**Distance-regular** [BCEM12, HS95, Mou20]. **distance-regularity** [CFMG06].

**distances** [SWZB15].

**distinct** [AOTR11, CJ97, HL22, KSLP17, MTR19, Ota13, Ram22, Vei82b, WW20a].

**distribution** [LN14, Sto79, Til98]. **Distributions** [FKR93, TL12].

**distributive** [CZY12, MPGS21]. **Divergence** [KD16].

**divergences** [DDF22]. **Divided** [TX13]. **Divisibility**

[DK11, Tan10, TLL11, TCL16, Wit11, XL11, Zha14b, Hau12, LT12b, Tho88].

**Division** [RR04, BS22c, HWZ18a, Hua10, HZ20, RS08a]. **divisor** [DJS21, HH14, Kri87, LTL2b, OWTZ21, Tan10, TLL11, TLC16, XL11, ZWM17b].

**divisors** [Bar80, BC91, CG19, DS16, Gau76, GKL82, MW74b, MGF9b, Mgf79a, MP73, Min82a, New79, New82a, Nor08, Tho86a].

**Djordjević** [ZZY16].

**DMP** [Zhu19, ZIC22]. **DMP-inverse** [ZIC22]. **Do**

[MS10a, BT08b, Kuz05]. **does** [BPW16, Sta10]. **doi** [Ano16b, Ano16c].

**domain** [BS98, Dix97, Ilk20]. **domain-range** [BS98].

**domains** [BBZ22, NST89, Wag87, We93, WY18, WY09]. **Dominance**

[Chu90, GMW66, Hey88, JP87, MS12, Pat89]. **dominant** [BCKP10, CPLH17, Havia88, Lee94, LMLL17, Pri78, SC21, Sin77, TT78].

**Dominated** [Pop17, BPR14]. **domination** [WWS19, YZW21]. **Double** [FL18, BF05, DLL19, JS94, Sch95, SH92, Tal17, YW10]. **double-one** [SH92].

**double-zero** [SH92]. **doubling** [HM18]. **Doubly**
[AS95, CW93, Joh81, Mer96b, Sin73, Sin76a, Sin77, Sin81a, SHC02, SJ02, Ach77, Ben78, Bru85, BS08, BD13b, Bur95, CKP16, CK17, CCKL20, Cha83b, Cha84a, Cha88, CCW20, CL05, DJ98, Esh17, Esh22, Fie90b, For79a, FS86, For88, FM78, Gib76, Gol92, HJP17, Hwa85, Hwa91, Joh73, Joh74a, KS76, KS82, LM89, Ma91, MKS84a, MR07, Min75, Min82a, Min84, Mou94, MAM15, MA15c, Phu80, Pf87, Sin76b, Sin80, Sin84a, Wal75a, Wan76, Web83, dF13],
doubly-stochastic [Web83], downdating [FS22], Drazin
[Boa13, Bou13a, Bou18, BZZ11, BSZW13, Cam80, Cam83, CS22, CICX09, CIP18, Cve18, DCW10, DD12, HBM15, KW11, LPT13, Mos15, Mos21b, Rom19, Rom21, SPM14, SPK15, SKM17, WiMR16, Wei98, mWyD11, Wer87, XSH18, YZZ20, ZZ16, ZMG20, ZWW22, ZCCIW12, ZZC17]. Drazin-inverse [SPM14], Drazin-Moore [Rom21]. Drew [Hu94, Moh15]. DSS
[EBB18, LRD21], DSS-weak [EBB18, LRD21]. Dual
[IKR12, BBX20, CDK20, De 08, DLQ18, DF95, Din15a, GL121, GC22, LC18a, LCZW19, Man91, OP13, Oku93, PJ90]. Duality
[LT88a, BL83, Bar78, De 75, Joh14, SA21]. Duffin [CLX03]. Duhamel
[KT06]. duplication [JS08]. Dyads [dP74, De 78]. dynamical [MW19]. Dynkin
[BB14].

E-efficient [Sma17]. E-optimal [Sma17]. EA [HWL21]. each [BLP12]. Eaton [Y70, Tam02]. Eckart [Nas75]. Edge [BGK00, DWL20, But10a, CT16, CL17c, DJK08, FHZ17, Fer10a, GM90, KN04, LS09, LL22, LPH17, LO22, Mer89, NP15, WZ13, YHS13, ZLS11, ZQC18, ZWL15].


edge-Zagreb [ZQC18]. edges [JST18, KS17a, LLF08, TJ21, XW19]. editor
[Bha91, Cha93b, Roh13, Sch15, dS19a, Ano73, Ram02]. Editorial
[Ano79a, Ano80a, Ano80b, Ano80c, Ano80d, Ano80e, Ano81a, Ano81b, Ano81c, Ano81d, Ano81e, Ano82a, Ano82b, Ano82c, Ano82d, Ano82e, Ano83b, Ano83c, Ano83d, Ano83e, Ano83f, Ano83g, Ano83h, Ano83i, Ano83j, Ano83k, Ano83l, Ano84a, Ano84b, Ano84c, Ano84d, Ano85a, Ano85b, Ano85c, Ano85d, Ano85e, Ano85f, Ano86a, Ano86b, Ano86c, Ano86d, Ano87a, Ano87b, Ano87c, Ano87d, Ano87e, Ano87f, Ano87g, Ano88a, Ano88b, Ano88c, Ano88d, Ano88e, Ano89b, Ano89c, Ano89d, Ano89e, Ano89f, Ano89g, Ano89h, Ano90a, Ano90b, Ano90c, Ano90d, Ano90e, Ano90f, Ano90g, Ano90h, Ano90i, Ano91a, Ano91b, Ano91c, Ano91d, Ano91e, Ano91f, Ano91g, Ano92a, Ano92b, Ano92c, Ano92d, Ano92e, Ano93a, Ano93b, Ano93c, Ano93d, Ano93e, Ano93f].

Editorial
[Ano93g, Ano93h, Ano94a, Ano94b, Ano94c, Ano94d, Ano94e, Ano95a, Ano95b, Ano95c, Ano95d, Ano95e, Ano95f, Ano95g, Ano96a, Ano96b, Ano96c, Ano96d, Ano96e, Ano96f, Ano97a, Ano98a, Ano98b, Ano98c, Ano98d, Ano98e, Ano98f, Ano98g, Ano99a, Ano99b, Ano99c, Ano99d, Ano99e, Ano99f, Ano00a, Ano00b, Ano00c, Ano00d, Ano00e, Ano00f, Ano01a, Ano01b, Ano01c, Ano01d, Ano01e, Ano01f, Ano11a, Ano12a, Ano13, Ano14, Ano15, Ano16a, LT04, Mar82a, Tho90].
effect [LLF08]. Effective [CMM17]. Effects [GLS16, TJ16]. efficient [AAB17, Sma17].

eigendata [GPM14, MMG15]. Eigenfunctions [Red02]. eigenmatrices [Kir11]. eigenparameter [GMZ17].

eigenparameter-dependent [GMZ17]. Eigenproblem [IWpW14, BOvdD95]. eigenspace [KL21b, NSW21].
eigenspaces [GTM14].

[AABKS21, Har78a, JSE90, MMRR16, MS21a, AHJ20, AHJ21, Ano16b, Ano22a, BN06, BL08, Be15, BPS16, BPW16, Bén11, BCK15, CC17a, CQW16, Cro18, CCLN16, CR90, Das21, ES76a, Esc93, Fan05, FdF09, Gar85, Guo07, GZ22, Har95, Joh84, JLR+92, JD99, JLS09, JLD12, JST18, KMT06, LP00, LLF08, LLZ13, LLL15, LLI16, LZZ16, LW12, LZ15b, LPW17, LXX17, Loe73, LHH18, MH20, Mel19, Mir18, MMG15, MS15a, PLH01, dSP12, Rea96, SL19a, SG96, Shi15a, Sim95, Smi05, Sta10, TLXX1, TH092b, TJ21, Tre85, Tre86, Ves80, Wall11, XZ16, Yin21, YWW21, YZC21, ZHZ11, ZCLW22, Zhn15].

eigenvalue-eigenvector [Har95]. Eigenvalue-free [AAKS21].

[AHT85, AM85, And04, jAS21, BWF83, But10a, Cas91, FJM00, FIS06, GKV89, Gro95, HLP03, MS95, Rod02, Ter09, VH95, WEA83, AM13, ADHM19, AAD22, ABGP21, AS17, AB78, Ano79b, Ash16, AOTR11, BS21, BF05, BOvdD91, Ben90, BT07, Bru82, CTW15, Cra09, Da 05, DFK19, Das04, DAIH19, De08, DM19, DJ89b, DW10, Edw78, ELG88, EJ91, Eks93, FDLB20, FJ15, FWZ11, FS14, Fer10a, FW13, FS89, GRSW92, GJM16, GZ90, Gue19, GHK16, Ha89, Her83, HS93b, HUZ17, HL22, HW75, Ilm16, Jin17, JKB17, KJS79, JS80, JSW09, Kir91, Kir09, KLPK17, KNX93, KNX95, KK16, LS10, LXX21, LE18, LL14a, LS21a, Liu18b, LH21b, Mac09, MVP14, MS98, MH19, MR07, Mer94, Mou13, NS99, Nie10, NTU93, Pa17, PGM10, Ram22, SU77, ST15].
eigenvalues [Sil88a, Sil93, Sil99, SD20, Ter01, Ter06, TH07, TL12, WW20a, XZS19, XLS20, dLMO17, dOMD77]. Eigenvector [RP90, Che14a, CPZ17, Har81a, Har95, Hav88, Kul22].

[BD14, AM13, AGM13, BWF83, BDK+05, CT21, ER81, Fan88, FJS14, Fre76, GF10, HO14, Lit17, Liu18b, MOvdD90, McD92b, Moh16a, WEA83].

Eigenwerte [SU77].

Eight [Tia10, Dok83], eight-dimensional [Dok83].

Einstein [BM17a, BS22b, ILZjZ19, MCCW22, PM22, SZBW16, XJS20].

Element [BB17b, DSH95, Fer99, HW75, ZCP16, ZCP17]. Elementary [BC91, CL13, FL16a, Gau76, MW74b, MCF79a, MP73, MS02, Pie85, Sed04, Aue95, Boa13, DSI6, For87, Gog21, Jam81, Joh81b, KKR12, Kri87, Li87b, LB21, MS82b, MKS84a, MCF79b, Min76, Min82a, Nor08, Oge94]. Elements [Ger04, BBBS09, Boa13, BM17b, BM18b, Bre15, BS07, Cro18, Deu80, DKS09, Hon91, HK10, KM85, LR13, sL19b, LPT13, Lim10, LL18, Lon90, MV91, Mir92, dSP16a, Sch79, SLO13c, Vei82c, WM21, Yam18, ZHU19, ZCMIW12, ZCP18].

eliminated [TB01]. elimination [BJ94, LW10, Stu92].

Elliptic [CN15, GW08, GW12]. Elliptical [BS04, GS21a].

EM-based [CW20]. embedded [Fon92]. Embedding [Cra91, SR22, Wal86, Gue17, Gue19, TZ17].

embeddings [BB19a, De08, Hor04, Pan13, SZ85, VDW85]. empty [LPS09]. enclosing

[135x634] Entries [Mol18, Sin81a, BGV11, BGGS17, C97, CL14, CKS20, FW07, FW86, Her83, HNS99, HL20, INO15, It016, JKD16, KT21, LHS+21, Mee80, Min84, Moo76, Pok87, SG96, Si98, STZ94, SC22, Zel75]. Entropy [Zha14a, BM19a, BdP21, Drn13, Fur11, MN12, MF20b, ZBW16]. Entry [Che03b, Cha84a, JLDS12, KS82]. Enumeration [CMu90, WW76, Whi79, Wi83]. enumerative [Whi75]. envelope [Chi98]. enveloping [PZGL22]. EP [BT08a, DLD21, DKS09, Dra22, GCP20, GCP21, HS83b, JKH20, MRT16, Mos19, Mos21a, PM14, WD17, WL20a, Zhu19, ZCP18]. EP-nilpotent [WL20a]. Epimorphisms [Slo15b]. epr [MR17]. epr-sequences [MR17]. equal [AW83, Bot87, Cat21, FHT14, HW75, Jul21, Lim90a, Lon90]. Equalities [AC78, BC13, MS74, FLT20, KT19, MC80, Tioa01, Tiao05b, Tiao11c, Tiao21]. Equality [CGW14, Hia94, CL85, DDS83, Din98, HS89, HS91, JN90a, LW11b, LW10, MC83, Oku93, LWY21]. Equation [AP74, Che93a, HE20, Tioa03, AGR91, Bak84, BGdH92, BB19c, Che93b, CK84, CIDK07, Dat80, De 13, DWL13, DWL14, FS19, GPM98, Haj18, Has18, HW13, Ig99, dJLZ21, LRR87, LM22, Lei83, LZ19a, LQ95, LT10, LR98, MK16, Ned98, NF19, PLPC19, Roh04, Sal14, SLH20, SWL13, SPK15, Vei83a, WDX21, Wil83, YL11, YLW15, YLZ22, YCZ21, Zha16b, ZL21, ZLZ+22]. Equations [DH03, Fla74a, Pas16, BBP78, BS17d, BC06, BZ11, BSS12, Cam83, CL80, CW17, CCL10, CIRW21, DH86, DTS15, DH11, DM22a, DMT21, Din00, DLL19, DBG18, EO15, FH16, FN18, FR14, Fin92, Gra80, Har94, HKT15, HW14, HW15, HSX16, He21, Hla17, HBP18, HM18, HM20, Jvd91, JSY14, KP11, KM17, KN81, Kyr21, JLL+17, LD19, ILZ19, Lip96, LB21, Lon76, Mag83, MWC22, Mil22, NS99, New80b, Pen15, PM78, Roh91a, SLUG04, Son14, SK15a, SK15b, ST97b, Tioa0, Wal75a, WH12, WZH13a, WZH13b, WX19, WL22, XJS20, XSL15, YQ16, YW16, Zha04c, ZQZ21, IYW19, BC06]. Equiangular [CDK20]. equienergetic [LS09]. equiponderant [Pif87]. equitable [Aln11, AC13, Aln15, Ati20, LHF22]. Equivalence [Gol87, HWZ18b, MH20, New79, Zha01b, Ari16, BB20, CH87, DMV18, Der18, Drn13, EOvdD09a, EOvdD09b, Gow80, GrÜ76, HWZ18a, HW08, Hou09, New78, Oge94, PR20, Pet00, Ano22a]. Equivalent [AXH15, FA19, Bru79a, Hou09, Vei83b]. erasures [Ano16c, Ous15b]. Erdő [LN16]. Erdos [GX17b]. Ergodic [MSS13, Har84b]. ergodicity [MH22, Sen83]. Ernst [Vei83a]. Erratum [24]
[Ano79b, Ano16b, Ano16c, Ano19, JZ95]. **Error** [Hav88, CKL\textsuperscript{+}21, GLL18, Guo20, MS16b, Ned98, SC21, SWL13, UZ16, UB22, WS18]. errors

[AM13, CLW15, MMH22]. **Essential**

[BHC16, JKD16, JKZ20, JLL07, XS18, ABJ16, BC20, JR94, Pep19a].

**Essentially** [Joh73, Joh74a, Joh81b, NST91], **establish** [Tia18]. estimable [YC19].

**Estimate** [Gil93, Bou96, Con77].

**Estimates** [Fri93, GHK16, LLW\textsuperscript{+}11, MFPSS12, AP17, CPLH17, Luo19, OM21].

**Estimating** [CPKK22]. estimation [BLX18, LSX19, SLW21, UB22].

**Estimations** [FSWX22, WWW20, ZFSX17]. **Estrada** [Sha15]. **Euclidean** [AW07, AGR91, Gil16, GT11, JJK95, ST15, TG09, Zen22, dLP20]. **Euler** [Prz92, TD14, Tali17].

**Eulerian** [Gar79, TB01]. evaluated [Mes13].

**Evaluating** [Cal95a, TX13].

even [AM13, CQW16, CCLN16, HH14, Jin17, JKB17, SA14]. **Eventual** [YHCW14].

**Every** [Slo17, Vas86, Slo18a]. **everywhere** [CS19].

**Evolution** [EL21, Pan19, Pan20, CMR20, CMR21, CGOT13, ORT15, QM21]. **Exact** [FP17, FHW16, HSX16, Hua01, MO93, Tia18, XSL15].

**exactly** [Esc93, HW75]. **Examples** [Wes90, KCBR87]. exceed [BPW16, Sta10].

**exceeding** [LZ15b]. excess [DFK19]. exchange [Pre22]. **Exclusion** [SL19a].

**Existence** [DHS95, Her83, AE10, Fow80, LRR87, MHA17, Nas74, Roh91a, Tie16].

**expanding** [Che95b, EM15]. **expansion** [CRY95, Hon91, Krä87, TSYB82].

**expansions** [RW96, Wil87]. **expectations** [BG16]. **Expected** [GLLM21, HL18]. experiments [Con90]. **Explicit** [BP18, CLX22, CICX09, DM19, Elo18, Mar20]. explicitly [KS16].

**Exploiting** [HWSH13]. **exponent** [HJP17, HL10, LM95, Liu92].

**Exponential** [SW81, BV16b, Bel83, Chn84a, Dra21a, How83, Mar84, Tho86b].

**exponentials** [Cam78, ST91, ST00]. Exponents [JKKC22, SG09a, SG09b, exposed [Gar73]. exposed [HK16a, Mar13, YH05]. **exposition** [Mar89]. **expressible** [Pat83].

**Expression** [DLW18, Tia11b]. **Expressions** [BL13, Wei98, FP17, Tia10].

**Extended** [GRMA13, De 75, GHL16, HZG14, Mar78, Mas10, SRS21, WMFW21].

**Extendible** [BS07]. Extending [Cir16, Hon19, Sol00].

**Extension** [Hua90, LS16, Lei83, LLW07, PM22, Pat81, ySpWQ21, SL17, BR01, BD13b, Far94, Fic73, FH89, GJR97, HS75, Hou17, Kua18, LZ17b, LZ12, LZ13, DL15, Pop20a, ZZY16, Zha15b, dC13].

**Extensions** [All14, Atk91, Dti16, Gar75a, Hal86, LL14b, SPS15, BWLL12, BM19a, BG83, BCS18, CKKK22a, CR18, EL90, Epk89b, Epk89a, Far93a, Hua09, KKL21, MV75, MCIM21, Mit92, MP13b, TT12, Wer84, WS96, ZL15, ZN18].

**Exterior** [Tam98, AGR91, Coa99, Gre99, GV87, Jac79, Lin77]. **External** [SM94, Le95a]. extremum [For87, KKR12].

**Extremal** [BP98b, CJ97, CH12, FF21, Grz89, GLS13, Hil18, KN00, Tia11b, ZL22, AO78, BSG\textsuperscript{+}12, BK87, CSCH01, Fb75, Li85]. **Extremals** [YH05]. **Extreme**
Extensions [ELG88].


Field [Ric81, Ber65, Bra86, CJK13, DB14b, Ell93, Fri90a, Ful76, Gib76, Joh75b, JST18, KK90, Kyr11, LLC22, Man78, Mee80, MN13, Neu93, NJP19, Ota13, dSP16a, PM81, PM85, SMS15, Uhl79, Uhl14, Uhl20, Wes96]. Fields [XCC99, Adk95, Ben74, BB75, BM12, BD13a, BZZ10, CC17b, DP09, DJS21, Epk80b, Epk89a, Far17, Far20, GW14, GW16, HA18b, HAW05, KCI6, Moli16b, MP13b, Nor95, Nor08, Sta14, Sta15b, Wat89]. Fifth [Gar21]. Figures [Pok87]. Filbert [KA19]. Filiform [CCGO11, ARH15, ACO21, BS18a, CKKK22a, CLOK13, KKL20, KKL21, KLO14, LBV13, RH11a, RH11b]. Fill [Dji16]. Fillings [AW13]. Fillmore [Tan20b]. Filters [Chu84b, Pat17]. Finally [Uhl13]. Find [FTA20]. Finding [Vo83b, HKT15, Sol14]. Fine [PS20]. Finest [Uhl79]. Finite-dimensional [CDJ13, CW11b, CX12, Das17, DH20, DL20, Dok93, DJS21, Ell93, ES76b, Fal97, Far20, FTA20, Ful76, GA85, Gol79, Gol07, GW14, GW16, GX17b, Hol04, IOMAN21, KC16, KES83, KK90, KL15, Lew77, Liu16a, Mat90, MGA17, MN13, Mir09, New80b, Nir11, Pas15, PA94, PM81, PM85, RA21, RSP08a, RSH09, RC18, Rom19, Rom20, Rom21, SEL81, SM19, SZ19, Tan18c, Tho92c, Pal79a, Wat89, WW20b, YF18, Yan21].
First-order [RP90, AEAAES20, BC06, CNW21, KN00, Vo83c, Vol22].
Fischer-type [BJ93, Dru14, DL14, ES76a, HB83, MHH96, Mar76].
Fixed [ZX16, Ach77, BovdD91, BDK+05, Cha84a, DM87, GL11, Hon92, JP07, KS17a, LP07, LT93, TH14, TJ11, Tia17, Wes87, YWZ21].

fixed-points [Hon92]. Fixing [OWT21]. Flag [HLZ02, Mil15]. flagged [Chu90]. Flanders [GJR97]. Flat [CN08, ERS12, Pat84]. flows [Lee98, LT13].

flagged [Chu90]. Fishkind [Dji16]. five [HM76, HM78, MO91, Vol22]. Fischer [BJ93, Dru14, DL14, ES76a, HB83, MHH96, Mar76]. Fischer-type [Dru14].


Wan17a, ZWM17b, dFJY22. **full-rank** [Rub20]. **Fully** [Har87, HL10, Liu92].

**function** [AEAAES20, AFM13, BB22, BH16, Bou14a, Bou14b, CRY95, CMM20, Cha92, Cha93a, Da88, EDKA07, Erd22, FD14, Gam18, GP14, GP74, HSM15, HFS15, How80, Jam81, JS20, Kap77, KN04, KK16, Lei95b, Lim00, Lon73, MMS21, Miy22, Pam87, Per17, RW84, Sal14, SMM14, SM16, SK15a, Tia17, Vei82c, Wan79, WZD16]. **function-induced** [Da88].

**function-valued** [Da88].

**Functional** [AL01b, Ere15, Lee16, Nie14, REG07, Wan19b, AGR91, Cro08, DMR69, FR90a, FR90b, FR90c, GB81, GD82, GD83, GR84, HH79]. **Functionally** [Fre76].

**functionals** [Lee15, MR75, Pap13]. **Functions** [AMP02, Hon99, Pie85, Tam02, Tur02, You80, Ab20, AHK19, Anj17, AA12, BT13, Bal79a, BCN05, BC82, Be03a, Be83a, Be84a, BC85, BD85, BMFPPSS81, BL93b, Bra86, BHI86, CSG22, CH12, Che91, CP10, DV18, DLR91, Dra10, Dra11, Dra16, DS18, DS19b, Fun83, FS83, For87, Fri81, Fri90a, FM22, Gam00, GR81, Gha21, Gib87, Gil93, Gil12, Gol89, Gol90, Hau12, HBI73, HW92, HOT15, Hof75, HF18, HX21, HH14, HLPW17, JK22, JMS19, Joh75a, KD16, KH05, KKR12, LR96, Li87b, LT90a, LT92b, Lim10, LM19, Lla96, LC83, MS10a, Mat90, Mer74, Mer79a, Mer82, Mer83a, Min76, MR75, PSMA16, Pat83, Pat93, Pat03b, Pat17, Pie92e, RR91, Ren90, RW96, Sal12, Sat11, SW81, SK15b, TLC16, Tih98, Tre85, Tre86, VY21, Wat77, ZW19, dCdSA22].

**Fundamental** [Mac09, Far90]. **Further** [BHK78, BM17a, Boa19, DW12a, DIF13, GHL10, How83, MRT14, Mis17, WC15, YWZZ1, ZJ11, Zha15b].

**Furuta** [Dra13a, FJK98]. **fusion** [SA17]. **future** [Ab20].

G. [BMD87, TT78]. **Gaddum** [Das21]. **Gaddum-type** [Das21]. **gain** [HHY22, LY22a, MKS22, ZH22].

**Galilean** [CSY18, TZ19b]. **Galilei** [aCC17].

**Galois** [Ota13]. **gamma** [Miy22, Sali2, UB22]. **gammoids** [Mum86a]. **Gaps** [YMYS13]. **gauge** [Che91, DLR91]. **Gauss** [Sal14]. **Gaussian** [BJ94, CP16, DMV18, Ter22].

**Gaußian/Bernoulli** [CP16]. **gcd** [PB17, TM19, Zha14b, AST05, HIN810, Hau12, Li92, Tan10, TLL11, XLI11, Zha14b].

**gcd-closed** [Zha14b, Li92]. **gcd-graphs** [PB17, TM19]. **Gelfand**

[Gren11, HT10, ZCY22]. **General**

[CHK00, HX15, NP80, Uhl99, XSL15, CT21, Che93b, CW12, CPT15, CP21, HW15, HML17, HN83, HN86, KO15, LQ21, LCL13, LL07, Pan13, Pen15, Pie92b, Pre22, SMM16, SLH20, SMM22, TJ21, WL16a, Wat89, Wri22, Zha04c].

**Generalised** [Fri75, FNRB96, HK80]. **Generalization**

[Dok17, Mou13, BM07, CGMR11, CC92, DMV18, Fie84, Hey92, HZ12, Kan87, KS14a, KPS19, KA19, Kov86, KAE22, MP94, MP95, Rub20, TR21, dC13].

**Generalizations** [HC80, Dra13a, MR10, Sha20, Sla16, CDK20, Dat16, DN18, FS83, Fy87, GS83, Liv94, Lu22, MP90]. **Generalized**

[BG99, Be83a, Be83b, Be84, BLDP04, BDPNDP17, BS22b, Bou18, CM84, Cha96, CLX03, CL05, Cve18, DD15, DP18, Esh17, Far20, JP15, KB16, KL12, LW11a, LPS12, LCL14, LL18, MJ07, MP13a, Mer79a, Mer83a, PSL14, PUO15, Pet00, RS18, Rao81, Sin84a, SM19, Siv06a, SPK15, Tamo2, Til77, Wer86, 28]
generalized [GS06, GPM98, Gog21, GB90, Haj18, HK79, HJP17, HBI73, HKO16, HBM15, HT91a, HLPW17, HM20, Hug90, Jon92, JNBR93, KM19, KS15, KM14, KL16, KS14b, Kay17, KW17, KR14, KPPR21, Kyr08, Lei92, Lei93a, Lei95b, Lei95a, LCL13, LTT84, LMR94a, L96, LLS10, LB11, LPT11, LWXF15, LZ19b, LW11b, LWB11a, LL11, Liu17, LPW17, Man87, MKS84b, MR15, MS09, MS18, MM20a, MM20b, MMH22, Mer74, Mer82, Mia93b, MS12, MMS21, MMG15, Mol18, MAT22, Mos15, Mos20, Mos21b, Mou04, Mum86b, Nab98, Nas75, ND13, NT86, NSW21, NF19, Pat03b, Pat08, PS20, Pep19a, PT10, Poo80b, Rad16, RS09, Rom20, Roo20, RS08b, SMM16, SES21, SM20, SC20, S187, S188a, S187, Tam86, yT86, TX13, TT06, Tia10, Tia18, Tia21, TCI13, Tsi81, UPÖ16, WC15, Wil81, Wim88, XCB18, YLS10].
generalized [YZ13, BD22, YBCW96, YW05, YW09, ZZ16, Zha20a, Zhu18].
generalizing [KS16]. generate [BT17]. generated [Ber05, CKKK22b, GPK94, KM19, KCBR87, KLS08, Law19, MP87a, RS07, Sch79, Tre85, Tre86, Tre87, Wad90, Zen22]. Generating [New85a, BdPNp17, CSG22, Lew77, LM19, Lop11a, RV84, Spi76].
generation [Dre93]. generator [BT07, FTA20, GC22, Mah82].
Generators [TW17, Ahn11, Chi22, Gai77, GC22, Lop18, SL15, Wat89].
Generic [Wil87, BFZ07, FW86, For97, Lei83, MMRR16, PS91, dTS20].
genericity [BGLSS20]. genetic [Pan17]. Genus [BS20, Ger82]. Geodesic [CGNT15].
Geometric [CKS20, CF15, Sei95, ZZ00, AG22, Dra18a, EJD88, EB17, FS16, FS18b, GHT11, JK10, JST18, LS17, Pep19a, Pep19b, ST94, S174]. Geometric[BD94, Pan15, CL94, MM06]. geometries [Kes83]. Geometry [CGHK08, HW06, GL16, Jam88, Lei93c, LWC22, NP91, NF19, Witt1].
groupoids [RD12]. Groups [Gur97, KMEO12, LM03, AF11b, Adu15, AL21, Ber05, Bri89, BS07, CF21, Cha77, Cha79a, CL86a, CL86b, CP15, CFL+22, Den05, Dok91, Don92, Fri97, GL16, GT79, GL97, HT92, Hol04, HS17, HW75, Kin91, Koh11, Kra05, Kra06, LTT93, Mah82, Mah95, MC80, Mar00, MZ17, MGA17, NP73, Ota13, Pat82, Pre22, RA21, Rei75, RC18, Sla16, Slo13b, Tam97, Til77, Vin06, Wat91, WW20b, dB10].

Grover [KMMS22].

growth [CdSS17, FdSV16, GdSV16, IM18, Iop19].

Grüss [Ota20, DM17].

guage [HWL92].

Guessab [TR21].

GUS [LLV18].

GUS-property [LLV18].

GW [Hai88a, Hai88b].

GW-rootsystems [Hai88a, Hai88b]. gyroscopic [YZC21].

H [Cha84b, MP13a, Sun20, WSZL17, Wan77]. H-tensors [Sun20, WSZL17].

H. [Cha83a, For79c, Jia92, Kra87, Mal89, New83]. Haagerup [MW19, MW21].

Haar [OS18].

Hadamard [AHJ87, Aue98, Bap91, BG21, Boz99, Cho18b, Cra91, Dok17, Du10, EM95, EF98, ES76a, FKR93, Fr75, GA20, GP74, GN02, GS20b, Gó22, GMW84, GMW86, GM87a, HB83, Hey92, HJ87, Hua08, HXL16, HK17, Joh77a, Joh74b, Joh75a, Joh77b, JM85, JN90a, JN90b, JN00, KLZ10, KMS02, LHS+21, MKS84b, MF92, Mat92, MTR19, Ota20, 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, GN20, GZY18, Mer83b, NG15, Nof15, NF19, Ry93, WC12, ZW17a].

hamiltonicity [Lu22, LLP18].

Handelman [KNX95, KNX93].

Hankel [BG83, Boz99, CCLL22, Ikr15b, JTW17, KS16, Lew97, LC20, LM19, MHH96, Sol06].

Hankel-symmetric [CCLL22].

hard [Rol00].

Hardy [YGG19].

Harmonic [KK19, ST94, Web83].

Harnack [CB22, LZ17b].

Hartwig [DD14].

Haase [Gar75a].

Hausdorff [BB14, BMM20, BMFPPBSS21, CW11a, DTS14, NTS97, TD14, Tal17].

having [BCEM12, BCS14, DH91, Est80, HZH20, JG79, JS84, JovdD84, LD19, MPPS21, Shm07].

Hecke [LLT93, Mit0, Zha21].

Height [HS89, AKH92, HSR91].

Heinz [Ala16, BM15b, GHT11, KM11, KK13, LS15, Man17, NS18, SYK15, Sab19, SG18].

Heinz-type [Sab19].

Heisenberg [AC19, CPS22].

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, CK20, De 08, DL92, Dra17a, FdF09, FH89, Gro97, GJMW86, HR85, HNS99, HW06, HM95, JN80, JR84, JP86, JL91, JS08].
hidden [JDD21]. hierarchical [BCDF09, GLLM21]. higher [SWL13, WG91a].

Higher [AM21, CKL^+21, BdP12, Car20, CGW14, CL17b, CLN21, CGHK08, CLMR09, DTSI15, FHL^+14, Jon78, KP14b, Li87c, LPS09, LPS13, MC86, MP73, Mer78c, MS15b, MS16b, O'R15, Woe08, WX12, Xu18, YLX20].

higher-dimensional [CL17b]. higher-order [Xu18]. higher-rank [BdP12, CGW14, CGHK08]. Highly [DM22b, Sma17, Zha20a]. Hilbert [AB17]. Hilbert-modules [AB17]. Hilbertian [BFM20, MSS13, RSM21]. Hille [JRMFMASS16, MFPSS12]. Hirano [CS21a]. historical [Pri78, TT78]. history [HPS83]. Hitting [Che18, GLLM21, HL18, ZL22, ZZ21]. Hochschild [Hou17]. Hölder [AO97]. Hölder-type [AO97]. Hodge [Sam78]. Hoffman [MV91]. hold [MS10a]. Hölder [Dra18a, LPW17, Mer81, Mer78a]. holds [MO91]. hollow [FJ15].

Holomorphic [BGLSSS20, MRS10]. Hom [AC19, CRK18, CR21, GZW20, SX15]. Hom-left-symmetric [GZW20]. homomorphisms [Pan15]. homogeneous [BB17a, BMP10, BPR12, FGMSS19, Fr97, FM22, HSX16, LT07, MO93, ME18b, PSW18, Soa08, Sun20, Ve121, XSL15]. Homomorphisms [DK16, Tho92c, AAB15, An18b, Ben05, BM16, BMGM15, EPR16a, EPR16b, HZ20, LZ11a, Ld21a, ML12, ST22, TOM88]. Hook [CW81, Pat95, Hey88, JP87, Mer83b, Rem90, TOM88]. Hopf [Adn15, Egg95, FJK14, LW20, Lia96, MZ04]. Hori [Ve83a]. Horn [Mas10].

Hua [XXZ11, And80a, LW11b]. Huang [Uhl13]. Hull [And04, Gil12, IOMAN21, KSMB16, LT89a, Poo94, Tho75a, Ti77]. hulls [AS11a, SA07, Tho75b, TT18]. Hungary [BL80]. Hurwitz [Ang00, AYC93, CCL10, Kri87, MGAH19]. hybrid [CKL^+21, fLLyP15]. hyper [BT17]. hyper-ideals [BT17]. hyperbolic [CN21, HK10, LL17]. hyperbolicity [BV16a, Dra21a]. hypercomplex [Lei93c]. hypercubic [GR10]. Hypercyclic [Shk12]. hyperdeterminant [Bre12a].

hyponormal [LWL21, SKLS20, SKLS21].

Hyponormality [GHL20b, GBM21, KKY22].

Hypotheses [Red02].

ic [Chi78].

ID* [LC22].

ideal [GS20a, Rao81, AVVÁ18, Bou06, Dix79, DK14, MW16].

idempotence [ZCZ12, TXC08].

Idempotence-preserving [TXC08].

Idempotency [BT08b, Pet10, Xu15].

Idempotent [Bot96, CZ22, Ma15a, AS95, AJL18, AH10, BB06, BT22a, BT08b, Cat21, Fos05a, Fur08, GH98, LaF83, LWY11, Tia11a, Tia11c, Wri22, You15].

Idempotents [ÁLvW16, Dol04, Hon21, KR02, KR03, RR02, AF11b, AJL14, BB20, Ben15, Bun94, CS10, CG19, FL16a, FD12, Gha12, HP90a, HP90b, HK16b, Hus96, Slo14b, Tzs19, YQ90].

identifiability [ABC18, YLX20].

identifying [HM19, Sun20, ZYH19].

Identities [AAB20, AELL20, For79a, GdSV16, RZ17, BM18a, BP09, BE20, Car06, CdM15, CdSS17, Chu22, Dim15b, Dom95, DiI97, Ere15, GV95, Hon92, Hon93, KV13, Lee16, Rem89, Rem93, Rem88, TC04, Wan19b, Wen06, dC13, dC15, dC18].

Identity [Zha04a, Bre14, DDA20, Doi75, Fei79, Gil14, GV87, Gur83, JOTvdD94, MS85a, Mer74, Pat08, Reg87a, Ste82, Whi80, Wll81].

II [Ano79b, MS21b, AF11b, AS11a, Bea83b, Ben74, BKL97, CL92, Cha93a, DM14, Fan83, Fon89, Gar75a, GN20, GKL82, GLL03, GM14, Gur97, Hll11, HW06, HZ20, JKS79, JP86, KK75, KS07, KL92, Lim90b, Loe74, Loe93b, MM76, Mer78c, Mer98b, MP95, MAH21, NP80, Nie07, NS22, PS22, Rho90, RS10, Sct78, Sil88a, Sct02, TLL11, Tau74, Wea83, Wes95].

III [AF12, Bea84, BH74, GL97, MM92, Wes74].

Image [LWB19, Wan19c].

Imaginärteil [SU77].

imaginary [CCL10, EJ91, GHK16, HHC12, SU77].

imbedding [Adk95].

Immanant [CA03, CD98, CD01, Do 96, Gro85, It016].

Immanants [Jam92, Pat90, Gam00, GMW86, GM87a, Har85, JP87, Pat95, RS10, Wat86].

immanent [Fer10b].

Immanent [Hey88].

Implicit [JSW09].

Imprimitive [MM11, FW07].

imprimitivity [BP92].

improper [Tho75b].

Improved [LW17, ZV19, CPLH17, GB77, Li21a, MF20a].

improvement [GL18].

Improvements [HLB20, BP22].

Improving [Dra19a, GJM84].

Inaccurate [Ned98].

incidence [AG20, Bap97, BL11, BFJ12, BFK18, CD21, DW16, HZ11, Khr16, KH05, Mmu86b, Ryt73, Rys75, Sp80, Yan21, ZZ15].

including [LL14a].

Inclusion [GZ76, JR93c, JR94, LS04, PT87, Das18, FMX18, LXQ21, Lei18, LST89, MW18, ZL18, Zha19].

incomplete [VY21].

increase [Kuz05].

increasing [Cho10].

Indecomposable [LF16, BB15b, HK16a, Har87, HK16b, HL10, Liu92].

Indefinite [BLdPS04, BdP12, BdPN14, LZ19b, LMMR01a, LMMR01b, Rod81].
Independence [MW18, HHY22, LZX19, SD20, Tan18a]. Independences [JX13]. independent [Bra86, FTA20, Mer78b, Pat83]. Indeterminates [Rys73]. index [BB22, BP92, BS95, dAB17, BG16, BF15, CMM17, CM15, EDKA07, GWW20, GM18, GM21, HRT15, Jun88, Kir93, KS17a, LTL93, LLI09, LHL+15, MC82, MM07, MM09, MQ21, Mer89, PJ90, Raj09, RRR93, RY93, Sha15, WL18a, Ye11, YGW15, dB14a]. indices [AEG19, BFZ07, Bo01, DF95, Dua22, LS22, MZ04, ZH22, ZCLW22]. Induced [CL80, Sch95, CL85, Da 88, Gau76, BMN22, HWL92, JN00, KL95, Lei93a, Lei93b, Mal95, MO94, Ste94b, Tan88]. Inequalities [SH98]. Inequalities [Ala16, And80b, Cho18a, Cho18b, ES73, Fur11, Haw05, HMN91, HLPW17, JK22, JX88, JSG94, KS19b, Lee91, Lev74, Li91, MS74, Pat82, Pep19a, Pep19b, SAV01, AC78, AAP82, AKK17, AS20b, AW07, Al20, AHK19, AdFK15, And80a, AO97, Anj17, AA12, BM15a, BM19a, BDK09, BDK21, BP98b, BCK15, BKL97, BBP01, BP02, Bo12, BHK10, Bun91, CLL14, CL17a, DM10, Dua10, Dua12, Dra1b, DL14, Du10, Fan92, FH15b, FH15a, FJK98, FSY16, FMS19, GA18b, Gha21, GHT11, Gru98, Gyl78, HLB20, Han17, Han19, HB83, Hua94, HSW19, I3a17, HOT15, How20, Hua08, HXL16, JMS5, JN14b, Kan87, KM85, Kan94, KM81, Kim91, KS07, KM11, KK13, KT83, KW89, Lek19, LM06, LPS12, LLZ13, LH21a, LS15, Lim00, LF21, Man17, ML21b, MOGN18]. inequalities [MS21a, MS21b, Mos12, Nie07, Nie22, Ota20, Rai19, RK94, RSM21, SYK15, Sah19, SM21, SRS21, SDB22, SG18, SHA18, Sha20, SA10, SG96, ST86, SZYY18, Tho78, Tia05b, Tra84, WZ97, WZ14, YLS10, YLC19b, YSK15, ZW19, ZCLW22, Zou20]. Inequality [Pat81, AFTG19, Ala18, AB78, AH87, Aud15, BM15a, BM15b, Bak16, Bap88, Bap91, BdP21, Dia79, Dra11, Dua13a, Dra17a, Dra19a, Dra19b, Dru14, ES76a, Fri75, FL16b, FS18b, GMW84, Gro85, GM87a, Gum15, Ha88, Hey92, HOK16, HM95, JRMFMA16, JH72a, JMS09, Joh90, JZ95, KS14b, KMS21, Kua18, Li87b, fLYP15, LW12, LZ17b, LPW17, Lon83, Lon97, Mar76, MS88, MV91, Mer94, Mia93a, MP94, MP95, MP96, MGH19, MF20b, MR01, MFPS11, MS18, NAS19, Oka91, PS14, Pat96, Pat97, Pe91, Rea96, Tho98, Tik98, VM18, Wan79, Wim85, YGC19, zY11, YLC19a, YqS16, Zha01b, ZZZ12, Zou20]. Inertia [GS06, GA18a, GA20, JR84, LRT91, ZCLW22, AL78, BS97, CM92, CFSGL18, Dua22, GWW20, JP86, Loe92, MF92, ZH22]. inertia-preserving [BS97]. Inertially [GS01]. Inertias [KMOV07, JL91, KOvDD09, TL12]. infimum [Dj06]. Infinite [ALPM20, DvE20b, DvE20b, GJK02, KK75, KMS02, ME21, WC16, AELPM18, All14, Bar07, BB14, BH15a, C591, CP10, DvE20a, G016, HLZ18, KPPR21, LF15, Liv94, LRD21, Lud21a, Nag17, Ng14, Pop14, Rai87, RD12, Siv06a, Siv06b, Slo13a, Slo14b, Slo15b, Slo15a, Slo15b, Slo17, Slo18a, Slo18b, Slo06, WC12]. Infinite-dimensional [ALPM20, KK75, AELPM18, Bar07, BB14, LF15, Liv94, WC12]. infinity [DM87, HM78, MZ04]. inflations [GW98a]. influence [Sch77]. Influences [CP16]. Information [JS91, BL80, DHKSH08, FHLS13, Fur11, MF20b, ShDHG08]. Inheritance
[BS17e, BS18b, Pan17]. **Inner**
[BLdPS04, Tan16, Dra19a, Dra19b, FD14, LMR94b, LMMR01a, LMMR01b, LB21, Ota20, Pat08, TZ19a, Tan13b, Uhl82]. **Input** [Har94]. **instability** [KU22].
**integer**
[BT07, BM18c, BM19b, CZ22, GA20, GRMA13, LSOvdD95]. **Integers**
[New85a]. **Integral** [Lee18, LYZW12, Yiz02, Yiz03, BHK78, BSG+12, CQ18, CL17a, CFL+22, Dra21b, GHL16, HK79, HK80, Hsi78, HHW15, Kir04, KAD10, Kri87, Kut19, Luo19, Mah82, MTR11, New74, Tau81, Th086a, Th086c, Th087a, Th088, Vas63, Wei93, YW09, cc85]. **integrality** [MM05]. **integrals**
[BC06, Sim83]. **integrals**
[BC83]. **interesting** [Bru85]. **Interlacing**
[Mar90, CM84, GT11, ISCS11, LM98, LPS12, NU94]. **Intermediate**
[BK21, 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, XWT22]. **interval**
[Aze99, CR22, Har96, Hla17, HWL21, KSMB16, KP11, RR95, RK94, Rok06, Rub20, Skal17, TXL21, XL1]. **Intervals**
[AG16, AAKS21]. **intraclass** [Ma11]. **Introduction**
[Abo20, AL94, Row95, KIP14b, Pie92b, Tra84]. **inv** [Gar79]. **Invariance**
[MF77, SSZ93, BK83, Beq78, Gro96, Hem93, LT88a, LTY16, Man91, Min76, WW20b, XQ15]. **Invariant**
[BR04, De 90, Dom14, Ger74, MZ04, NT86, Pat77, Sil98, Th087a, AE10, Aze99, Ba84, BG86, Ben78, CW81, CDJ13, CLW15, CLR81, Fri90a, Heo16, HJ20b, HS87, HJ87, HMN91, JS94, JP15b, JL88, JN92, KME02, L87, LT89a, LT89b, LT90b, LT90c, LT91, LT92c, LT93, LLW07, MKS84b, Mar90, McD92a, MMRR90, NS85, Pok87, RRR93, Ras19, Rod81, Ser81, Sil88a, Sil88b, SS96, VAO1, Sin73, Sil90, Ste82, Wan17b, XFG14, Wb90]. **Invariants**
[Gur97, Mau78, PW78, AR15, AMZ13, BZ99, Bed10, Bed11, BX11, BCDHP10, BB17c, CLX22, CNW18, CN15, Dock09, Dom00, Dre93, Fog73, GAS5, GHV99, GL97, KP92, Lop11a, Lop11b, Lop18, MZ17, RH11b, Sch75, Sch88, Tho88, Wat83, dTS20].
**inventory** [Mer83a]. **Inverse**
[BS11, CLX03, HS16, LLS14, MNN+98, Min82a, Mir18, ZHZ11, AHK92, BT10, BT22a, Bap97, BCN05, BP19, BAN12, BLZ11, BB17b, BBX20, BS17e, Boa19, Bon18, BT98, BZZ10, BZZ11, BSZW13, CC17a, Cam80, Cam83, Che95a, CS19, CS21a, CS22, Chu22, Cro18, CICX09, CIN15, DMV18, Dec74, DD10, DCI10, DLW18, DS16, ER90, FS18a, FdF09, FSWX22, GCP20, GCP21, Gar85, Gro99, HP18, HMY78, HUX16, HPV84, HPV88, JL03, KMR89, KCS21, KW11, KR07, Kyr11, LCZW19, LP16, LW11, LYZW12, LPH17, LL78, ML21a, Ma22, MP16a, MS18, MZ15, M122, MMG15, Mol18, MS15a, Mos15, Moc18, MAM15, PM22, FJ90, PM14, PH97, Rea96, Rom19, SM20, SC20, Siv06b, Smi05, SPM14, SPK15, SPK15, SMK17, SZBW16, Tia05a, WL15, WMR16, WLL19, WLL21, WM21, Wei98].
**inverse**
[mWyD11, XQ16b, XU93, XSH18, XCM20, YZ14, YW05, YW09, YZC21,
ZFSX17, ZMG20, ZBW12, ZCP16, ZPCZ16, ZCP17, ZIC22, vR11, LLS16].

_inverses_ [BP74, GN02, MR15, Rao81, AELL20, Bl95, BHK78, BM17a, BS22b, BT06, BL13, BGV11, BT15, BGZW16, CC22, CKN95, CD21, CC21, CZZH22, CIM19, Dra13b, Dra17b, Dra18b, FLT20, GK18, HK79, HK80, HM76, HM77, JGK79, KS15, KM14, KCICV18, KR14, Kyr08, LPT13, Li11, LC18a, LW11b, LW08, LB21, MR13, MP13a, Mia93b, MS12, Mos20, Mos21a, Mos21b, Nab98, PP16, PBM20, Rad16, Rom20, Rom21, Siv06a, SMi74, Sol14, Sta15a, SKP18, ČKč79, SMM22, SPS15, Tia01, TC04, TS05, TT06, Tia10, Tia18, Tia21, VM07, WC15, XCC99, XQZ13, XCB18, YZZ20, YLS10, Zaw01, ZZW22, ZCZ21, Zhu18, ZP19, Zhu19, ZW20].

_inversion_ [JTW17, Elo18, FZ11, JS91, Jon78, lLZjZ19, Mar20, Tis93, Wer86].

_invertibility_ [BLR12, Den14, FSW11, IK18, KR02, KR03, MAT22, SR17, Wat83, Xla20, Zel77, Aue95, Aue98, BLZ10, Bou13a, BMGMC15, CQH15, CIP18, Cve18, DW12a, DD12, GNO20, HC14, LD17, LS00, MA10, SA17, TCI13, ZZ16, ZCCI12].

_invertible_ [BLSV12, Gur97, GL97, BSÜÖ13, Che07, Dra22, DK21, Fra13, Gow80, GHL16, HBM15, ILpW16, LW11b1, Siv06a, Siv06b, Tan13a, Tan18b, XFY16, XZ18, ZCW21, ZZC17].

_inverting_ [KHG13, FdM18, dFJY22].

_involutions_ [AF11a, AF11b, AF12, BCI13, BB17b, Fra13, Gow80, GHL16, HBM15, ILpW16, LW11b1, Siv06a, Siv06b, Tan13a, Tan18b, XFY16, XZ18, ZCW21, ZZC17].

_irreducibility_ [MM05, Mer75, Mur89].

_irreducible_ [GT14, Lla96, Min74b, Abd09, BCS14, Bru79a, CCU21, Coh88, DF87, DYM92, Els78, Hon89, Hol14, Hmu90, Hun83, Hun86, JP15b, KSMB16, Kra05, LZ09, Li95, Min74a, Pat93, Pul75, Roh06, SZWB16, TB92, IW115, WWW20, YSY17].

_irregular_ [LG20, SRS17].

_isometric_ [GJR22, MCL20, MP18, MP19].

_isometries_ [DLR91, KL95, LS02, MN12, Dok90, GWW16, HS83b, HFS15, HF18, IK19, JS20, LT88d, Mol15, Oi20].

_isometry_ [CP16].

_isomorphic_ [Whi74].

_isomorphism_ [Whi74].

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

_isomorphisms_ [BDW12, BD12, BDYW16, BFK18, CMR21, DPWr13, IT16, LWXF15, Pan15, Wan16d, XWF18].

_isospectral_ [Mer97].

_isotropic_ [JMS19].

_issu_ [DK17, KL21a, LT09].

_issues_ [BBM20].

_Ito_ [AM15].

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

_iterations_ [Mis17].

_iterative_ [CC17a, DH86, DCLW19, LLC21, WX19, AAB17, ALP94, BS17d, CW20, FTA20, Gb89, HM20, Ku22, LC18b, PLPC19, YZH19].

_Ito_ [HZG14].

_IV_ [Chu90].

_Iwahori_ [Mit10].

_J_ [New83].

_J. [Mer79b].

_Jacobi_
[All14, BB21, CKN95, GPM14, HK21, Mir18]. Jacobian [Wri93, Yu96].


Laguerre [ASAS79, Mc19]. Lambert [JS19]. Landau [BdP21]. Laplacian [AAS14, AFTG19, ABGP21, AAB20, AM85, AH16a, Arc22, Ash16, AEG19, AKB21, AOTR11, BKP01, Bar08, BL08, BPW16, But10b, CRW21, CP15, CL17c, CHQ18, CZ21, Con90, Das04, DP17, DAH19, Das21, DK17, FTZ08, FLZ07, FYS13, FHT14, GHL10, GM90, GZ90, Guo07, GLS16, HM011, HLP03, HUZ17, HH15, HL22, Kir04, KADM10, LP07, LP09, LLF08, LZ11b, LC14, LLP18, LLZ22, LPWX16, LL15, LZ15b, LL10b, LPH17, LDL17, LY22b, LHH18, MH16, Mer97, Mol18, NP09, PLH01, PGLM00, RA21, Rod02, Rod03, Sar20, SYZL17, SHS17, So99, SD20, TJ11, Tan12, TYC21, Vrb86, WSH+11, WH11, WZ13, WBZ14, WW15, Wat90, XZL14,
XW12, XWF15, YD14, YZ13, YZ20, Yan21, YWO07, Zha15c, ZL15, vWZ19]. Lie* [Liu18a]. Lie*-automorphisms [Liu18a]. Lie-theoretic [Mou04]. Lie-type [MHA17]. Lieb [Byt20, Pat96]. Ligh [KMH19]. like [AM21, BD14, KM17, LM19, Nie22, Tan12, Zha97]. Limit [Ger86, Cam78, Har84b, Kat75, LYZW12, Rei83, Tos79]. Limiting [Sie99, LN14]. limits [Geh15]. Lindström [LN80]. Line [GW08, HJ77, HT91b, WBZ14, ZB13]. Lineability [BMP10, BMFPBSS21]. linéaires [Del94]. Linear [AS17, ASZ02, Bea78, BP89, BP90, BP92, BL93a, BL01, BBBS09, Bot79, Bot87, CL83, CL92, CL95, CLN13, CLMR09, Coe96, DGJ+16, FHLS13, FHL+14, FJJZ21, HJ19a, Hof75, 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, LS01, LZ01, LM03, LS04, Lim76a, Lim79a, Lim82, Lim90a, Lim90b, Lim97, Lim01, LRD21, Loe93a, Loe93b, Lor14, Luk74, MP17, MF79, MC80, MS09, Min77, MSS19, Mol09, Prz92, RK94, Sin82a, Sl018a, Sl018b, SA14, SB03, Tom19, Wat82, Wes74, Whi74, Zha05, Zha22, ZXF15, ZW14, Abd09, AC13, Ahn15, AFM13, Ami11, Anmi18, Ano92g, AW83, BB06, BB20, Bar07, BS16, BS17c, BS22a, BGdH92, BB19c, BT08b, BLZ10]. linear [BR10, Ben78, BCM18, Bou18, BZZ10, BMGMC16, BF96, BSS12, CK91, Cam83, CW90, CW20, CL91, CC19, CS10, CKLP13, Che93b, CW12, CZHH22, CWSZ17, CSY18, CL05, CKL16, CK20, CL21, Chu84b, CPT15, CF15, CFP21, CL21, DM17, DM20, DPP17, DH86, Del94, Den14, DLQ18, Din90, Doo16, Dra21a, Dra18a, Dre93, DN18, EL09, EÖ15, EBB18, FDL20, FK91, FW73, For87, Fos05b, Fow80, FH15a, GL18, GP06, GL85, Gib89, Gur98, HK16a, Had83, HR85, Hla17, HH16, Hua16, HWL21, Hun83, Hun86, ISC11, IK18, INO15, IKR12, JDD21, Joh11, KP11, Kas85, KMS18, Knu85, Koi21, KT83, KKR12, Kov77, KK22b, Kun99, Leh76, LCL13, LT88a, LT92b, LT92c, LT92d, LM06, LFF14, LF16, LZ16, LD17, Li21a, Lia80, LLWX17, LZ19b, Lim10, Lim15, Lip96, LWB11a, Mag83]. linear-algebraic [Bar07]. linearisations [Ves80]. linearity [GR14, Rom07]. linearizations [Adh13, BD14]. Linearizing [Chi78]. Linearly [Mer78b, Rus16, FTA20, Koh11, Pat83, YZH19, dCH21]. lines [SZ85]. Liouville [GMZ17]. Lipschitz [Öi20, RP04]. List [Ano12b]. listing [Mum86b]. lists [Wil73]. Literature [KS17b]. little [Krä87]. Littlewood [AW13, AM90, BG90, Wat86]. LMI [Hil07a, Hil11]. Load [Kir14]. Local [AKY21, AK21, Ben74, Bun94, CZZ22, CFP10, Gal79, HSM17, Liu16a, ZL17,
localization
[Auo22a, JL85, LR96, LLL15, LL16b, LZF16, MH20, SL19, Sen83].

Location
[Fer10a, RW21, HHC12, Jin17, Joh75b, JLR92, LB19].

loci
[Ven19a].

Loewner
[HS12, NS18].

Loewy
[Moh15].

log
[KD16].

log-convex
[KD16].

logarithmic
[DM13, OvdD77].

lollipop
[LZ14a].

London
[KM84, MV91].

looking
[DH91].

Loop
[DH18].

loopless
[SG09a].

loops
[KMP19, MPI17].

Lorentz
[Hil07a, Hil11].

Lorentz-positive
[Hil07a, Hil11].

Lorentzian
[NP91].

Low
[DO19, ARH15, Bal18, CFSGL18, Der18, DBG18, FP17, KSI17, Laf78, RH11a, RH11b, WW20a, WW12].

low-dimensional
[ARH15, RH11a, RH11b].

low-order
[FP17].

low-rank
[CFSGL18, Der18, WW20a, WW12].

Lower
[Bén11, BR19, Cal03, CW10, DTS14, Hon99, JKB17, MC89, Mer81, PLH01, Pat87, Pat03a, Rho87, Rho90, Rob75, AFM13, CR15, CW11a, Kar83, KMN01, Li11, MF20a, Mar97, Mel13b, Neu83, Pat09, PS20, Ric78, ST94, SSG12, Tia17, YSY17, ZBW16, ZWS20].

LU
[Neu81].

LU-factorization
[Neu81].

Lucas
[Chi11, lGyW99, KA19].

Lusztig
[RS10].

Lyapunov
[AL78, BBP78, BV16a, HS85, LZT18, Loe73, Loe74, Orl18].

M
[GT08, SA14, GT08, Wan77, XCC99].

M.
[Cha83a, For79c, Hsu85, Kra87, Mal89].

M/M/c
[GT08].

MacMahon
[BX11].

made
[KS19a].

magic
[BTT20, Lor14].

Magma
[LPS21].

Magnitude
[Sin81a].

Main
[Ter01, Ter06, AFVL00, Bur95, FS14, FS89].

maj
[Gar79].

Majorization
[Bap87, BJ93, KPP13, EBB18, FMX18, GM90, JLL11, JMP17, LW12, LRD21, Mos10, MSS19, Nie07, Nie22, SA14, yT00, ZL17].

Malcev
[BPSO12, KLO19].

Maligranda
[Nie22].

Man
[Mer17].

Manasrah
[WZ14].

manifold
[MV75].

Manifolds
[GH98, Muk20].

many
[BS15b, Hua96, TLC16].

map
[AF11a, AC13, Ahn15, Car20, Chu84a, LM96, LP16, San14].

Mapping
[ST08, Gol83, Gol90].

Mappings
[Pet10, TH18, BSO13, CL01, CG22, Eba92, Fu20, Gha12, HLH18, HZXL15, JL12, Kuz05, LF13, Lim82, Lim90a, Loc93a, Loc93b, MW74a, McD92a, PR12, Pet97, Tag12, Vel21, Wan17a, Wet11, ZL17].

Maps
[AN19, BDS13, BM15c, CGY13, CL17b, Che03b, DS04, Do04, Do07, EAM19, EM15, FKK11, GM18, LH11, SH21, Slo14b, TH14, WJ16, Zha04b, ZHK09, ZWW10, AA21a, AEV12, AS17, AG15, AC12, AKS18, BHD10, BHD11, BEH19, BBBS09, BH13, Bot87, Bre12b, CSKS9, Car19, CL80, CL85, Cat21, CCL18, CM19, CC19, CW11b, CW12, Che14a, CW16, CWSZ17, CSY18, Cho10, CKL16, CK19, CK20, CKT20, CL21, Cos14, Cos21, DM17, DM20, DS13, DHB07, DW12b, FDLB20, Fos05b, FLE14, Fra13, Fra17, FH15a, GP06, HK16a, HR85, Heo16, HJ19a, HJ19b, HJ20b, Hl07a, Hl07b, HK11, HH16, Hua10, JS94, JQ15, JP86, JLR*92, Jul21, KMS18, LP11, LF16, Liu15, Mar13, MA75, MR12, MS09, MO13, Mol09, MN12, MOGN18, Nag17, Nie07, OP13, Oge94, Oi20].

maps
[OK07, Ore19, dSP16b, PR20, PW78, Pie79, Poo17, QH11, QH17, Rai87, RJ04, RŠ06, RŠ08a, Rue89, ST22, Shc21, Slo13a, Slo16a, SDL10, SL17, TKT19, TS21, TB92, TXC08, WZC11, WZL13, Wst83, XCC99, XPY16, XL17, XZ18, YZ20, YH05, ZC12, ZX16, Zha16a, ZXF15, ZW14]. Marcus [And80a, AYT83, BD96, Cha89, Cha83a, For79c, GLS13, Hu87, Hu89, KL17, Křa87, Mal89, Mer17, ST80, Tam86, Tam91, Wan77]. marginal [Joh82a].

Marcus [Kua18]. Markov [AS11b, Gue17, Gue19, Gur98, Kir14, ME18a, ME18b, ME21, Sie99].

Martices [MNN+98, Wer87]. Martin [Koo95]. Marvin [Mer17]. mass [BS15b]. Matching [LS21a, CHL18, FLZ07, LC14, LY22a, LY22b, MF20a, Mum86c, Rau18, SYZ17, SKLS20, SKLS21, TW19, WL20b, WL18b, XZS19, ZZ15].

matchings [AFTG19, GZ22]. Mathias [FS15]. Mathieu [dB16]. matric [PM78]. matricial [AK94]. matrice [Slo18b]. Matrices [AY74, BKL02, BL93b, BS04, BS08, BZ13, CA03, CD03, Cra09, De 82a, Dom95, EMS02, Gar21, Gib92, GN02, Gra87, GK77, HS83a, JR93a, JKZ20, Joh81a, JL90, JL93, JT95, JT04, JPT7, Kap77, KW21, KK22a, KMS02, Lev74, LP02, MS74, Min74d, Nab98, New80b, Peň02, RR04, Rao81, Ric81, Ric85, Ric87a, Rob77a, ST73, Sin76b, SHC02, SJ02, SK03, SB03, Stu89, TPS19, TDL18, Zab89, Zab90, Zha04b, dO75, AG22, AA21a, AC15, Abo20, Ach77, AS95, AG16, AAB16, AAB17, AAT16, AGS20, ADJH22, AAIJ2a, AAIJ14, AAIJ18, AAIJ12b, AS20b, AIA19, AAKS21, AW07, AAB20, Alp95, AST05, Ami80, AMZ13, AEdF13a, AEdF13b, AdF21, AO78, AB78, And80b, AD17, Ang00, Ane22a, AB19, AG96]. matricies [AM21, Arm17, Ati20, AKB21, Aue95, Aue98, ALP94, AA20, Aze99, BS15a, BHC16, BLX18, BS08, BB06, B10a, BT22a, BB22, BG86, Bal77, Bal79c, BS83, BDD09, BS91, BPS00, BCN05, BK17, BZ90, BZ99, Bar74, Bar80, BGS3, BOVdD91, BH90, BT90, Bas19, BHK78, Bea78, Bea85, BL93a, BL97, BL01, BS16, BS17b, BS17c, BP88, BDL01, BL92, BP98b, BKS21, BDS13, Ben74, BH74, BB75, BT06, BLZ10, BL13, BSU13, BBM15, Ben05, Ben07, Ben78, BGV11, Ber17, Bel12, BB15b, BP74, BS97, BSM98, BX07, BDK+05, Ber05, BZ98, dAB17, dAB21, BD85, BPP21, BP22, BH15a, BS17c, BS12, Br01, BR01, Bot94, Bot96, Bot97, BB96, BB17c, Bou13a, BZ22, Boz98a, Boz98b, Boz99, BT15, Bra86, BC17, BD13a]. matricies [BCKP10, Bru85, BS08, BD13b, BM18c, BM19b, Bru79b, BK87, BZZ10, BSZ13, BGZW16, BM16, Bur95, But10b, CC17a, CM02, Cal97, Cal99, CQ18, CKGP21, CP81, CC16, CC121, CGY13, CK17, Cao19, CCKL20, CMP22, CP97, CFSG18, CD15, CL02, CCS98, Cha3b, Cha4a, Cha88, CGW14, Che92, CK95, Che07, CW10, CW11a, CZY12, CP16, CW16, CW20, CTW15, CT96, CL14, Che17, CL05, CNP05, CNP06, CN18, CLNT17, CN21, CKS20, CLN13, CKL16, CK20, CKT20, CL01, CKP09, CJW19, Coe96, CR77, CZ22, Cos14, Cra91, CL74, CGH14, CPL17, CIP18, Cve18, DPP17, De 90, De 75, Dec95, DTS14, DD10, DC1W10, DSH95, Din15a, Do 96, Do13, DL29, Dok93, Dok17, Do07, DO20, Dom14, DC20,
DGJ16, Dra22, DJL94, Dru15, DdF15, DH22, DN18, Düß97, ERS12, ELG88].

matrices

[EL90, Elo18, Els78, ER81, EJH88, ES98a, ES98b, ES00, ES76a, EV77, EM73, Esh22, Est80, FL16a, Fal97, FV97, FJM00, FX12, FT21, Fan73, Fan92, FL18, FW07, Far17, FJ15, FWZ11, Fen10, FdF09, Fer10b, FF21, FS83, Fie90b, FP17, Fit94, Fla75, For79a, For79b, FS86, For88, For79d, Fos05a, FHL14, Fra13, Fra17, Fre76, FH89, FM78, Fri84, FLS88, Fri12, FL16b, FSWX22, F815, FSY16, FIS06, FJ16a, FS89, Gai77, GLL18, GHL20a, GPM98, GA18a, Gar55, GWW15, Geh15, GJR97, GKS01, Ger86, GS21b, GS21a, GPM14, GV95, Gbi76, Gz99, Gil14, Gil17, GKL82, GZ76, GTZ75, Gol87, Gol92, GH98, GS20b, GR10, GR93c, Gro97, Gro99, GLP92, GP96, Gro17, GHT11, GHK16, GHL16, Gur79, Gur92, Gy178, Ha88, HC14, Haj18, HK79]. matrices

[Hal91, HJP17, HZ11, Har87, Har78b, HS83b, HS83c, HADM13, HINS10, Hau12, HDJ97, HWZ18a, HR85, Her83, HS88, HS93b, HNS99, HS12, Hii17, Hii18, HLS18, HKO16, Hol85, HH85, Hon99, HJ87, HZ12, HM76, HM77, HM78, HLZ18, Hsi78, HLZ05, HH14, Hu01, HW06, Hua08, Hua10, HLZ11, HZ20, HL20, HK17, Hwa85, Hwa91, HK92, HS93c, HK94, HM95, HK95, Hbr00, IS15, IS16, Ito16, IOMAN21, JK22, JGK79, JGS90, JS96, JDD21, JR93b, JM13, JTW17, JK10, Joh73, Joh74a, Joh77a, Joh74b, Joh81b, JR84, JP86, JP87, JSE00, JKS94, JWP98, JS99, JR09, JN14b, JTO00, KM19, KS16, Kan87, KS15, KS14a, KMS16, KLZ10, KCS12, KP14a, KT21, Kim79, KS09, Kim13, Kim91, Kir91, KP92, KS93, Kir93, Kir04].

matrices

[Kir99, Kir11, KM11, KS19b, KS76, KS82, KKL18, KL19, Kob06, KNX93, KH95, KT19, KE82, Koz17, KS83, KS84, KM98, KS17b, KAE22, Kzu05, LR17, La78, La83, LL16a, sl19b, Lau81, Law19, Lee91, Lee18, Lei95a, Lei93c, Leu77, Lew97, Li86, Li87a, Li87c, LT88c, LT88d, LST89, LT90b, LT90a, LT93, LM93, Li95, LOSv195, LEH96, Li98, LSS01, LPS08, LLZ13, LL14a, LLL15, fLLyP15, LZ16, LLGL16, LLML17, LH21a, LCW22, LM95, LLL09, LHS21, LLPW16, Lim79a, LT14, Lim15, LT12b, LW12, LZ17a, LF21, LMMR01a, LMR01b, Lit17, Liu92, LB09, LWY11, LWB11b, LL78, Loe87, Loc01, LS21b, Lon80, Lon81, Lon83, LSZ86, LM89, Lon90, LR89, Lop11b, Lop18, Lov21, LSX19, LZ22, MM11, MVPS14, Mag83, MN80, Mah82, MM90, Mal91, Mal94, MRT16, Man92, MH96, ML21b, MZ04, MS79, MKS84a, MS89].

matrices

[MR13, MR15, Ma20, MH19, MH20, MSZ04, MR07, Mas10, MH12, MP90, McC85, McD92b, McI79b, MS10b, Mee80, MS18, MDMR09, MMRR16, Me84, MO93, Mel12, MV91, Mer94, Mer98b, Mes90, Mes13, Mia93a, Min74b, Min74a, Min75, Min76, Min82a, Min84, Mir92, Mir18, MS12, Miis17, MS10c, MMG15, Moh16b, MTR19, Moh15, MP16b, MSS19, MS98, Mol09, Mol15, Muo76, MS21a, MAH18, MAH21, Mou04, Mou13, MAM15, MA15c, Mur89, ND05, ND13, NS99, Neu79, NP80, Neu84, NST91, NS92, NS93, New74, New75, NT86, Nie14, Nie10, Nof15, Nom73, NP91, NS22, NTU93, OP13, Oml14, OK07, Ore19, Pat92, PS20, dSP12, dSP16a, dSP17, PUO15, Pet09, Pet00, Pnu80, 42
matrices
[Rea96, RW96, RR95, Rho87, Rho90, RS74, Ric78, Ric87b, RD12, Rob75, Rod97, Roh91b, Roo20, RW21, Rub20, Rys73, ST94, SC21, SS79, SU77, Šen97, Sen83, SM94, SMBB +15, Sha91, SG96, Shi15b, Siš88a, Siš88c, Sii88b, Sii90, Sii93, Sii95, Sii98, Sii99, SP87, Sin90, SAV01, Sin73, Sin76a, Sin77, Sin80, Sin82a, Sin82b, Sin84a, Sin93, Skl13a, Skl14b, Skl15b, Skl15a, Slo16a, Slo16b, Smi05, Smi76, Smi94, SH98, ST91, ST94, Sol06, Sol14, Sou83, Sou03, Sou92, Sta15a, Sul08, SH92, SWZB15, SK15a, SK15b, SvW14, TD14, Tal17, Tam86, Tam94, TT12, TZ19a, Tan10, TLL11, Tan13a, Tan14, TLC16, Tan18b, Tan20a, Tan20b, TG09, Tau81, Tho74, Tho75a, Tho75b, Tho86a, Tho86c, Tho87a, Tho88, Tia01, TS05, Tia05a, Tia05b, TT06, Tia11a].

matrices
[Tia11c, TL12, TJ16, Tia18, Tia21, Til77, Tii98, Tis93, Ton87, Tra89, Tra90, Tre85, Tre86, Tre87, TGW14, TMovd93, TZ21, UÖÖ15, UPÖÖ16, Uhl79, Uhl14, UG21, Vas87, VMö7, Wad90, Wal73, Wal75b, Wal86, Wan76, Wan79, Wan80, WZ95, WOY06, WZC11, WYM11, WZL13, Ipw14, IWV15, Wan16a, WC16, Wan17a, WS18, WL18a, WLL19, Wan05, Wat84b, Wat85a, Wat85b, Wat77, Wat82, Web83, Wes87, Wim85, Wim88, Woe93, WM4, Wör20, Wri22, Wu09, WX22a, WX22b, XCC99, XQZ13, Xu93, XX11, XL11, Xu15, XPY16, XL17, XZ18, XHL20, XCM20, YLS10, YLC19a, YLC19b, Yon80, YBCW96, Yu96, YW16, YZH19, ZZ16, Zel85, Zel75, Zen22, Zha00, Zha01a, Zha98, ZS05, Zha05, Zha14a, ZZZ16, ZFSX17, ZMG20, Zha20a, ZW10, ZHZ11, Zha14b, Zha22, ZXF15, ZCLW22, Zho16, ZBW12, ZW14, ZCW21, Zim89, Zou12].

matrices
[ZIC22, ce85, dF13, dFJY22, dCH21, dPN81, vBW95, vR11, KNX95].

matrices-nonsingularity [ES98b]. Matricial
[Far93a, MRS10, CKL+21, CH12]. matrices [DDJ76, HK80, NU94]. Matrix
[AMP02, AP04, Af87, AP74, And04, jAS15, AW13, AM90, BD94, Bom02, BC94, Che93a, Dat80, Der16, DS02a, DS04, EMS02, Fan92, Fla74a, Foa79, FS18b, Gal03, Gil12, GMR81, Har95, JT03, Leh91, LT92d, LM96, LP03, Mir81, OW02, Pat03a, PT02, PY82, Rum97, Sin81a, Tho78, Tia02, Tia03, Tur02, Wei98, Zha04b, Zho04a, AEAAES20, Abd20, AFV100, Adh13, AS11a, AM13, AN80, AAD22, Ake83, AAB15, ABGP21, AdFK15, AG15, Ano97b, Ano97c, jAS21, AELL20, AKB21, AY95, Aud15, BY19, BS21, BK83, Bak84, BB06, BCR91, BJ75, BY76, Bap97, BGK99, BGK00, BK01, BS11, BR14, BWF83, Bas17, C82, Bea83a, Bea83b, BC85, BD88, BS17d, BGdH92, Bel83, Ben90, Ben11, Ben18, BT08b, BV19, BT07, Bot94, Bou13a, Bou14a, Bou14b]. matrix
[BHK10, Boz97, Bra86, Bre21, BGGS17, BC91, BF15, BS184d, BZZ10, Bun91, BSS12, Caf13, Cal95a, CRW21, Cam78, CKP16, CL80, CJ97, Cav10, Che92, CH12, CLW15, CS18, CD21, CC21, CQ22, Che91, CCL10, CT09, CNP05, CN07, CN14, CM85, Cho10, CR22, Coh88, Con90, CC98, CC18, CICX09, CIP17, CIRW21, DPvW13, DH86, DW92, Dec74, DTS15, DH11, DM22a, Der18, Deu80, DHT94, DDF22, DS09, Dok73, Dok90, Dok09, DB14b, 43
Dom00, DLL19, DJ89b, DWL13, DWL14, DJS21, DS18, DS19b, EM95, EF98,
ER90, EOvdD09a, EGT16, EOvdD09b, EB17, FZ11, FTZ08, FHW16,
FNW18, Fei79, Fie81, FLR85, FSV11, FD18, FKKS11, Fr97, FH15b,
FSY16, GAGM18, GA20, GHL10, Gil93, GKLRS2, GLR82, GRSW92, Goi89,
GG22, Gou17, GB90, Gow80, Gra80, GHV99]. matrix
[Gre99, GPK94, Gro96, GJM86, GTM14, GT79, Gus81, GHT16, Ha89,
HK16a, Ha18, HL90, HZ11, Har81a, Har94, Har96, HP90a, HP90b, Has18,
HK15, Ha88, HB173, HW13, HW14, HW15, He21, HS81, HS88, HS89,
HS91, Hia94, HS87, HMM91, HBP18, HS16, Hou21, How83, HT10, HXL16,
HL1W17, HM18, HWS13, Hu81, HP94, HP88, Ik91a, Ik920, IH11,
Io1v15, IO15, JK16, dJLZ21, Jh77a, JKS79, JOvdD84, JOvdD85, JD09,
JS08, JST18, KMR87, KSU22, KS16, KM85, Kar83, Kat75, KM17,
KFR17, KFR20, KL12, KA19, KOvD09, KS07, KLKP17, KMM92, KPPR21,
Kov77, Kra05, KMS07, KML95, KLZ96, KK16, Kur04, Ky108,
Ky21, Lai80, Lai84, LRR87, Las91, LZ09, Lee15, LM22, Lee93a, LRT91,
LR96, Lew96, Li84, LT88a, LT91, LP93, LP00]. matrix
[LLS10, LZ11b, ILy15, IL17, LC20, LLC21, Ll21b, LLC22, LPW10,
LWIF15, LW11b, LC18b, LQ95, Lip96, Lip98, Lip87, LW08, LT10, LT11,
L1Y22, Liv94, LM00, Lop11a, MJ07, MS0a, MD11, MW16, Mag83,
Mai11, MS83, MS83, MRT14, MK84b, Mar89, MR97, MP89, MS89, Mat90,
Mat92, MP87b, McD92a, MS81, MK82, Me13b, Me18, Me19, Me20,
MK16, Mer74, Mer89, Mer83a, Mer89, Miy22, M18, MP94, MP95,
Moo95, NNT95, Nod98, Neu83, NP80, Neu81, NP83, New76b, New78, Nof15,
NT94, Ob12, Ogu20, OvD77, Pah79, Pat82, Pat03b, Paz84, dSP11,
Pea84, Pen15, PLPC19, PW78, PM81, PM85, Pre85, PV00, PH97, Q285,
R807, RS8, RR91, RS10, RP04, Roh06, R19b, R19a, R1a0, Rou98,
Rys75, Sal79, Sal12, Sal14, SA07]. matrix [SQM99, Sar20, SMM14, Sch77,
SM20, ST80, SLUG04, Shi15a, gSpW17, Siv06a, Siv06b, Slo14a, Slo17, Slo8a,
ST96, ST00, SBMP16, SC22, Sta15a, Ste94a, Ste94b, SX12, TD16, TD19,
TZ06, TZ17, Tau73a, Tau81, TB01, Th087b, Th089, Th92b, Tia00, TC04,
TS05, Tia10, Tia11b, Tia17, Tk98, TT18, Tos79, Tra84, TSY82, Uhl13,
Vas86, VY21, Vla22, VM18, Vrb86, Val11, Wal75a, WZ97, WHX08, WH12,
WZH13a, WZH13b, Wan19b, WLB19, Wan19c, WW20a, WMFAW21, Wat83,
Wat90, Wea83, WW12, XSH18, XWT22, zY11, Yin21, YS17, Yq16, YL11,
YLW15, YW16, YZ17, YTL20, YCZ21, bPFZ908, Zha04c, ZCZ12, Zha15a,
Zha16b, ZL1, ZLZ22, ZW19, ZX10, ZV19, ZW10, ZW14, ZWM17a,
ZWM17b, dFK21, dB14a, dOMD77, dB50, wVZ19]. Matrix-analog
matrix-tree [Mer89]. Matrix-valued [Tur02, Gil93, Oi20, Tia17].
matrix-weighted [SMM14]. Matrizen [SU77]. matroid
[Dia90a, Kas85, Mum86a, Mum86b, Mum86c]. matroids
[BVW84, Mum86a, Mum86c]. Maurey [Pop20a, Pop20b]. Max
[SK03, BPS00, BSS12, ISCS11, KS15, LL14b, Mer94, Moh15, Shi16, Tia18,
IW14, IWY19, ZBW16]. max-algebra [BSS12]. max-cuts [Mer94].
max-min [Moh15, Shi16]. max-plus [WpW14]. max-relative [ZBW16].
Maxima [YGW15]. Maximal
[Bal79b, INO15, Mos20, Yiz03, ACO21, BS21, GF10, HKS94, HKS95, JLL07, KMN01, Ks17a, Onl14, UZ16, WL16a, Wes80]. Maximality [Fli85].
maximally [Ano16c, Ous15b]. maximization [DJ89a]. Maximizing
[CL14, FKP03, FTZ08, GZ22, LP07, Pat07, WH11, GJMVW6, Hu94, Sha94].
Maximun [BDp21, FV97, Bf95, BF90, BS22a, CGG01, Cha88, DLSS18, DJ89b, FTA20, GWW20, JD99, JLS09, MI11, Mac95, Mai86, Mer80, Sin83, zSqsZ16, SL21, Wan79, WX19, Zha05, ZL19]. maximum-nullity [BS22a].
Mazur [CAP20, JVMCP19]. Mean
[MS81, AG22, Bla16, Cks20, Dra18a, EJD88, FP17, FS15, FS19, FS18b, LS17, Pep19a, Pep19b, Wim85, vBW95]. means
[CPKK22, DDF22, FH15b, FSY16, FMS19, GHT11, HSW19, KMS18, KMS21, Kk16, PSM16, Rai14a, Rai14b, Rai19, ST94, Tra84, Web83].
Measurable [Sim83, Han17, Sha20]. measurement [CP16]. measures
[BPR14, Joh11]. meet [Ilm16, KH95, MI12, WHL16]. meet-semilattices
merge [CW91]. Merris [Pat93]. metabelian [AM15, Mil15]. method
[BX18, CW20, Chau02, CLW21, Gib89, Haj18, KN81, LZ16, Li21a, Lzi19b, LC18b, LL22, Neu84, PLPC19, WL16c, YZH19, ZL21]. methods
[ALP94, Cro18, HK21, KM17, LW17, LW10, Sun20, ZV19, ZQZ21]. Metric
[AEV12, Rod02, BdPN14, OWTZ21, SC20, Tho78]. mimetic [CG17]. min
[ISCS11, LL14b, Moh15, NW21, Shi16, Tia18]. min-max [ISCS11, LL14b].
min-plus [NSW21]. Minc [Cha83a, Els78, For79c, Jia92, Kria87, Mai89, Mar03, Pur75, Sol00, Wan77, Wan07].
Minimal
[Cas03, Cha79a, CCS98, CD21, DB14b, EV77, Esh22, Fie81, HAM13, Lop18, MZ17, NS09, Nat13, SG06, WL16b, Woe93, BX07, BM14, BZ89, BJZ13, BD14, Cal94, Cal97, Cal99, CKP16, Cao19, Cha77, Dia90b, Dok73, DMD92, GY95, GMD85, GW21, HJ20a, Hii18, JS16, Kuz05, LC14, Lip98, Loe73, Lop11a, MR19, OvdD77, RY93, TL13, Tsi83, WR94, WW80, ZG11, Zha13].
minimally [SSG12]. Minimax [GLS5, Koz17, CM84, Fie90b, Zim98].
minimax-condition [Zim98]. Minimization
[HS93c, SPM14, FW13, fLLyP15, Pap13]. Minimizing
[FLZ07, KS19a, FS86]. Minimum
[BS22a, Bur95, Cha84, Cha88, Hwa85, JW91, KS82, LSOvd95, Min84, SHC02, Sj02, Tia02, BHH11, DLSS18, DHH1, FTA20, GZY18, Hou01, LLZ13, LG14+13, LLP18, LT13, LLF18, MS16a, NS15, WY20, Zha05, Zho16, DF13].
Minimum-rank [BS22a]. Minkowski [Mer78a, Mia93a]. Minor
[IW95, Cz11, Wil87]. Minors
[Sar20, AAB20, Bi95, BF75, For79b, Hol84, HO17, INO15, JOvdD84, Mia93b, RS10, San14, Sin77, TDL18, TZ21, dCDSA22]. Minus
[BMGMC16, KMS16, CGM19, NS92, NS93]. Miranda [Li84]. Mirman
[GS77]. miscellaneous [BLP92]. missing [CKS20]. Mixed
[Kut19, jAS15, BGK99, CHL18, Fan05, GPM14, GV87, JN14b, LZX19,

generation [UB22]. Modified [Zha20a, BS17d, CICX09, ER81, Gei78, PZGL22]. Modular [GNO20, CLL14, CN15, Reg93]. Module


Multiple [HH14, AAPP19, Cam14, HZXL15, JS08, JW09, LW08, NASR19, Pop20b, Rad16, RSPT17, Yin21, ZX10]. multiples [GKL82, Tho86a]. Multiplication [BRE12b, De 75, MO94, Wat85a]. Multiplications [FDLB20, Bun94, Tur16]. Multiplicative [BD12, BC82, CQ22, Che03b, Ger74, LR04, QZ16, AGAG96, DLW18, Est80,
non-abelian [CKR18, CKR21, Nir11, STME10]. non-absolute [DH17].
non-autonomous [MR12]. non-bipartite [GLS16, dLMO17].
Non-commutative [Mas10, DM18, KK22a, Mar12]. non-convergence
[BBM20]. Non-degenerate [Ait19]. non-distinct [VeI82b]. non-empty
[LPS09]. non-equivalent [Hou09]. Non-homogeneous [PSW18, ME18b].
non-increasing [Cho10]. non-integer [GA20]. non-Lie [ACO21].
non-linear [DM20, Fos05b, HH16, LLF14, TRD16, ME18a].
Non-negative [Ako79b, CCU21, GA20, GP96, JKS79, Kan94, Koz17, Pul75, Ran18, RS74,
Rou98, Smi74]. non-nilpotent [BL10]. non-perfect [DP09]. non-powerful
[MM11, WYM11]. non-primitive [GM21]. non-round [SpI00]. non-scalar
[Bre15]. Non-singular [KS09, SDL10]. non-threshold [KADM10].
non-trivial [Gha12]. non-uniform [SR17]. non-uniqueness [Bal18].
non-unital [NY21]. non-vanishing [MF77]. Non-zero
[Das17, Lim10, Pal79]. nonabelian [Mah82]. nonassociative [Lud19].
nonbinary [KP92]. noncanonical [BG86]. Nonchordal [GLP92].
Noncircular [GW12]. Noncommutative
[Yu96, Gut01, KW21, Nas74, Sha18, dPN81]. Noncommutative-nilpotent
[Yu96]. noncommutative-spaces [Sha18]. noncommuting [FW86].
Nonconvexity [Sol97]. Noncorona [AHJ21]. nondegenerate [CH12].
nondegeneracy [FW13, Laf78]. Nondifferentiable [Beb86]. nonegative
[EM73]. Nong [Uhl13]. nonggraded [GPW22]. nonincreasing
[CL01, Loe93a, Loe93b, Ore19]. nonintersection [AST05]. Nonlinear
[BBEL18, BEH19, BH13, CM19, CW11b, CX12, CW12, CW16, Cos21, FZ17,
HZXL15, JZL12, Wan17a, WX12, YZ20, Yan21, Zha16a, BH16, DWL14,
HB18, HM18, JS20, LM22, MK16, ME21, PLPC19, SLUG04, ZL21, KA19].
Nonnegative
[Bak84, BN88, CBQW19, Che92, DS16, JKG79, JT03, Lcw77, Shi15a, SB03,
Zha04c, AJJ12a, AJJ12b, BS92, BS17c, BP74, BC94, BSS12, CP81,
Cro18, DJ98, DJK08, DCLW19, Els78, EJ88, FW07, FJ15, FLS88, Gar85,
HP17, Har94, Hav88, HK92, JS84, JGS90, Joh75a, JP17, JML17, JMS15,
KSM16, Kir11, KXX93, KXX95, LEH96, LCC21, LZ17a, LL78, LS21b,
Mcl13b, MV91, MS12, NST91, Rea96, Rod81, Roh06, Smi05, Sou83, Sou03,
SZWB16, SPS15, VM07, WW20, Wim85, Xu93, YSY17, vBW93].
Nonnegative-definite [Zha04c]. Nonnegativity [LS10]. nonnegativity
[HRT15]. nonperiodic [CKN95]. nonpositive [FJ15]. nonpowerful
[GS09, SSG12]. nonprincipal [JES87]. nonreal [EJ91, Esc93].
nonregular [Gil12]. nonrelation [Tho88]. nonself [FJS14].
nonsymmetric [FJS14]. Nonsignular
[ACO21, dPN81, BY76, BNP06, FJ09, HX16, IS15, JT95, Liu18b].
Nonsingularity [BLZ10, BSUO13, ES98b, LWB11b]. Nonstandard [Ore19].
nonsymmetric [BJ94, BT07, BS10]. Nonuniform [BV16b, BV16a].
Nonzero
[CL86a, CL86b, DF90, CM07, Cro18, Fri12, GG22, KMOV07, MY12, TDL18].
Nordhaus [Das21]. Norlund [CW10, TD14]. Norm
Norm-parallelism [ZMCN19]. Normal [AP04, BD94, Far94, GW04, JMS15, KL15, LMMR01a, New94, Arm17, AY95, BT08a, BK17, BD88, Cha96, CN05, Der83, Epk89b, Epk89a, FX12, GR91, GR93b, GRMA13, Hua90, IH11, KL80, Kun99, Li98, LMMR01b, LL22, MRT16, MV75, McC85, MZ91, NTU93, Pro95, QK92, Rad12, RW21, STZ94, SPK15, WZZ22, Woe97, Xu93, YC19].

normal-preserving [Kun99]. Normality [Ikr15a, WW20b, BFM20, Kit91a, LST89, Man92, WZ95]. Normalizers [Luk74]. normaloid [BK21]. normed [KT83, Ng14, Pan15, Pas15]. Norms [BKL02, HWL92, LT89b, OW02, So90, AGAG96, AG96, Bar76, Boz98a, Boz98b, Boz99, CW11a, CM15, DLQ18, Gol87, Gro17, Hem93, HJ87, HMMN91, JL88, JN00, LT87, LT89a, LT90b, LT90c, Li91, LT92c, LWW07, LPT11, MS83, MSO83, MKS84b, MC89, Mar92, MM07, M21, Mer78a, Mer81, OvdD77, Que08, Roh94, RF19b, RSP17, Sav01, Sol06, TD14, Td17, Wan17b, YLC19b, ZHH09]. notation [Car06].

Note [Ano73, Ano82d, Ana84d, Ana84d, DSD83, DSO2a, HHC12, Lan81, LlpW16, LY22b, Mar82a, Mir81, Sam78, Tam85, AA21b, Ala18, Ala20, AAPR19, AB16, Ano82e, Ano83l, ACMS10, AOTR11, Bap91, BOvdD91, Bar12, Ben90, BZ00, dAB17, dAB21, BH15a, But10, Cha18, Cha83a, Cha84b, Che22, CTW15, CKL16, Da 05, Da 88, Du97, Els78, For79b, Fri12, Gol89, GJM86, Gum15, Gur79, Gur92, Har78b, Har81b, HWY17, Hug90, JS96, JS20, Jon92, KP11, KT95, K13, KKR12, KK18, LHP75, LNN0, Li84, LP00, LPWX10, Lim79b, Lim15, LGB17, LL78, Mal89, Mal92, MS89, MR13, MM09, Min82b, Moo76, MOGN18, MOS15, MAM15, New78, OvdD77, DSP17, PR20, Pri78, Pul75, RR95, Sa14, SP87, TKT19, TXC08, TT78, Til98, Uhi82, Vin06, WfMR16, Wan18, WLY19, mWyD11]. note [Wei93, Wbr20, WL16c, XQ16b, YZ14, Zha16b, Zou20, dCH21, vBW95].

Notes [Ami11, Cha83b, Joh75a, Wan16d, Zha89, LS21b, Mar92, Sim95]. notion [MS12]. notions [Hou09]. novel [ADJAH22]. Novikov [CKKK22b, DU21]. Nowhere [AGM13, AGS20]. Nowhere-zero [AGM13, AGS20]. NP [Roh00]. NP-hard [Roh00]. NSSD [FS18a]. null [BT13, Bea85, CLOK13, JVMCPR19, KKL20, KLO14]. null-fuliform [CLOK13, KKL20, KLO14]. Nullity [Chan21, BS22a, FDD14, MW15, MF20a, SzSqSZ16, WLM21, WL18b]. nullspace [AGS20, BC94]. Nullspaces [TMOvdD93]. Number [NW02, AEdF13a, AEdF13b, AYC93, BS21, BC05, BS16, Ben74, BT15, Cha96, CH18, Dat80, DH16, Df15, Epk89a, FMS19, FS14, FL07, HLB20, HHY22, Kir00, KK90, KS17a, LLW+11, LT12a, LC14, LZZ17, LZX19, LS21a,
LY22a, LL15, LY22b, MW18, MF20a, Mau78, Ota13, OWTZ21, Pat83, PGLM00, Rem82, RW84, SYZL17, SS96, SMS15, SD20, TW19, WW20a, WWZ20, Wan21, WL20b, WL18b, XW19, XZS19, YWZ21, ZZ15. Numerical numbers [EB17, FW07, Fer09, Haw05, Hou07, HLZ05, Ilk20, LL17, LM19, Ogb20, Ost74, SLW21, TB01, WWS19, Wu09].

Numerical [AMP02, BB22, BDK09, BB15a, BD94, BdP98, BldPS04, BKS21, Ber02, BDP21, BM17b, BM18b, BS04, CW17, CN04, CN14, CL00, DTS15, DE20b, ERS12, Far02, GW98b, GW04, GWW15, HW21, JOH75b, KL21a, LN98, LS02, LS04, LR04, MM07, Sed04, haYS99, Abo20, AS11a, AAK16, ADJAH22, Alo21, AM21, AYT83, AY84, AY95, AyT84, ALP94, Bal80, BDK21, BD88, BLD91, BL92, BD96, BdP12, BdPN14, BHK21, BP22, CRW21, Cha92, Cha93a, CC14, Cha18, CLP22, CGW14, CL17b, Che94, CL94, CT96, CT09, CL13, Che14b, CL14, Che16, Che17, CM15, Chi98, CNP05, CN05, CNP06, CN07, CN08, Chi11, CN15, CGL+16, CLN21, CH10, CGHK08, CKP09, CLMR09, Cro08, Da 94, DHKSH08, DvE20a, DM14, EDKA07, EM15, FT87, Far93a, FNB96, FHL+14, FL16b, GW08, GW12].

Numerical [GWW16, GS21b, GS21a, GTZ75, Go79, HH16, Hu89, HT91a, HT91b, Hug90, IOMA21, IOMAN21, JLL07, JLL88, JSG94, Jon92, JSG94, JNBR93, JR93c, JR94, KPL+09, KP14b, LLS14, LLS16, Lei91, Lei92, LT29a, Lei93a, Lei93b, Lei95b, Lei95a, Lei98, LT88a, LT88b, LT89b, LT91, LT92c, LMR94a, Li94, Li96, Li98, LSS01, LZ01, LPS09, LT09, LPT11, LWC22, LP16, Man87, Man91, Man92, Mar75, MF79, MS79, MW80, MS82b, MS85b, MP87a, MS87, MR97, MP98, MM09, MQ21, MS21b, MS15b, MS16b, NNT95, OKU93, OM21, Pep19b, Poo80b, Poo94, PV00, Rod08, RW21, RS08b, RM21, Sab19, SM21, SR521, SA07, ShDHG08, ST80, ST94, ST96, Spi00, Sz09, Tam85, yT86, Tam88, Tam94, Tam98, yT00, TS19, Tho80, Tho87b, TGW14, Tsi83, Tsi81, WZD16, Wes75, Woe80, WC12, YLC19a, YLC19b].

Numerical [YC19, Yua98, bPFZH08, ZHH09, vD96]. Numerous [SG18].


Off-diagonal [DHS95, WC12, Zab89]. Olga [Sch77]. Oliveira [BMD87, GLS13]. One [Bre17, CKKK22b, Cha84a, ZWW22, AVÁ18, BHD10, BLP08, Ben90, Bén11, dAB17, Bot87, BM16, Cat21, CCL21, Cho10, CL01, DH16, ELL95, Esc93, FT21, GVM18, Gur79, KS82, LL16a, Lim90a, LZ15b, MMR16, Ore19, Shi15a, So99, SKP18, SH92, WL18a, WM21, Wat85b, ZS05].

MŠ02, RS85, Tal17, WZ14, YSK15, AAP82, ADJAH22, All14, AXH15, AO97, Anj17, BHC16, Bak16, BM19a, BDK09, BJS15, BD84, BBP21, BP22, BH16, Bou13a, BC20, CKGP21, CL91, CDJ13, Che14a, CL17b, CNUV16, CC18, CIP17, CIP18, Cve18, DMT21, DD10, DCIW10, DV18, DD12, DC20, ESAJ18, FJS14, FH15a, FJK98, FMS19, Gha21, HC14, HS81, HSW19, HOT15, HQ18, Ik15a, JE21, JKH20, JX13, KS14b, KMS18, KD16, KMS21, Kit91a, KK13, KL19, LM85, LWC22, LS15, LD19, LFY16, MO94, MM20a, MM20b, MG19, MF20b, Mos19, PSA14, PSMA16, dSP16b, Pep19b, Rad16, Rai14a, Rai4b, Rai19, Sed11, SR17, SG18, Son14, TR21, TD14, XQ16b, XSH18, Yu14, ZZ16, ZHH09]. operator [ZZZ16, dPN81]. operator-eigenvector [Che14a].

operators [BLdPS04, Ber02, DS02a, DKK19, GW17, HT91b, JKH20, MŠ02, Pop20b, Sed04, SB03, AN19, ADRP14, AGV19, AAPR19, Alo21, AHK19, AFM13, Anu18, AP17, BK21, BHD10, BM15a, BFM20, BDK21, BP89, BP90, BP92, BL93a, BdpN14, BLZ11, BHK21, BP22, Boa13, BJZ13, BPR14, BT17, BCM18, Bou18, BM15c, Cam14, CW81, CQH15, CL17a, CZZH22, CN05, CGL+16, CH10, CGM19, CIN15, DH17, Del94, Den14, DLD21, DV19, DM13, Dra10, Dra11, Dra16, Dra18a, DK21, EAM19, Erd22, Esh17, Fan83, FMYX18, FNBR96, FJ22, Fur08, GT14, GGGA21, GCSC20, GR81, GW12, GJR22, Gil16, Gog21, GR91, GR93b, GG22, GHL20b, GBM21, GC22, Han17, Han19, HMK22, HBM15, HH16, HX21, HL21, HKS94, IOMA21, IOMAN21, JS19, Jac79, JKH20, JKD16]. operators [JX13, Jon78, JS15, Kan16, KKL20, KKY22, KP92, Kit91b, KL15, KLS08, KK22b, Ku19, LLMT05, LS96a, LS96b, Li87c, LT88c, LT88b, LT90b, LT90a, LT90c, LT93, LM93, LP93, LMR94b, LSS01, LZ01, Li01, LPT11, LD19, LS17, LGG19, LW20, LB21, Luo19, MCL20, MSS13, MF79, MS09, MZ91, MP18, MP19, MN12, Mos20, ME18a, ME18b, ME21, Ogu20, Oi20, OM21, Or18, PSS15, Pep19a, Pep19b, Pet10, Pop17, RT09, RS85, Rao18, Ras17, Ras19, Rho94, Rod08, RF19a, RF19b, RSM21, RSPT17, SPMR20, Sai21, Sam78, SES21, ST19, Sed11, Sha18, Sha20, SA10, Shk12, TH14, TD16, TD19, Tan13b, TMH21, UB22, Wal79b, WD17, WZZ22, Wil81, WW20b, WC12, YC19, ZMCN19, ZZ16, ZZC17, ZZ00, dBS00]. operatorwise [D)]

optical [FP17]. Optimal

operators [AP17, dBS00, BGV11, Bl095, CHFC19, Ig99, Knu85, LN10, NW02, PSS15, SS79, Sha91, Sma17, Ves80, IWpW14, WM84, XJS20]. optimal-node [IWpW14]. optimality [CPK22]. optimally [LOO22]. optimization [BLX18]. orbihedra [ZZ00]. orbit [Far90, Koi21, LT89a, RS07, Zha01a]. orbits [CQ18, DRW93, GS19, LPS08, LT13]. Order

[AA17, KW17, Peo2, vBW95, ACMS10, jAS15, jAS21, BS21, BTT20, BS18b, BH13, BH16, BMMGC16, Cam83, CNUV21, Car20, CQW16, CJ12, CIR15, Cir16, Cir17, CMG19, CM07, CCLN16, CIN15, CID16, CIM19, DTS15, DLD21, DD14, DL92, Dok93, Dok09, EM95, FTM08, FF21, FP17, FJK98, GG22, GZY18, GHT16, HS83c, HSX16, HSM17, Hili7b, HK10, Jin17, JKB17, KMS16, KS17a, Kre16, Kri87, lSL9b, LPT14, Leg06, LW08, LFY16,
MRT14, Mat90, MWC22, Mit92, New80a, PBM20, Rad16, SWL13, Slo14a, Sta15b, SF17, Tos79, WL18a, XQ15, XQ16b, XSL15, Xn18, YLX20, YJ21, YCZ21, ZX10, ZCP17, tHK17. order- [Sta15b, SF17]. ordered [Leg06]. ordering [Har78b, OST20, WL15, WC15]. Orderings [MP16b, Gro97, Hey88]. Orders [Mar18, And96, JS15, MRT14, Mar15, MRD15]. ordinary [ZG08]. Ore [BZ22]. Oriented [MR19, CT16, Gon17]. orthant [Mar92]. Orthochronous [Les93]. Orthogonal [BD97, GP14, GKO2, GGW76, Hol95, HK13, Hor04, HZ21, Koi21, Lop11b, Per17, SZ19, Siri20, BT11, Bas17, BBM15, CR22, CH87, DP00, Dok09, DWCD19, Ell95, Gal08, GAGM18, GZ99, GHT16, JWP98, KW92, KMP+19, KLS08, LM93, Lim01, Ma95, MRT12, MGAH19, MR08, MAH18, MAH21, ME18a, SM19, TL12, Vin06, W91a, Xu18, Zha01a]. Orthogonality [DS02b, Gro17, Hol04, RˇS06, RˇS08a, AR15, AV22, CP13, Fan88, GP14, ME21, Per17, RS09]. Orthogonally [AGV19, RS17]. Orthonormal [KCBR87, LZ01, CM86, W91b]. orthostochastic [PT87]. orthosymplectic [Lee94]. oscillatory [CP97]. Osima [HK16b]. Ostrowski [Mar76, She77, WWW20]. Ostrowski-type [WWW20]. other [BY76, Bar07, BBM12, MRT14, Pie92c]. otherwise [Bal78]. Oussa [Ano16c]. Outer [KM14, SPKC15, SCK+20, AB17, Boa19, FLT20, KCSC21, LMR94b, LYZW12, SM22, Tia01, TS05, YHS13, YGW15]. outer-planar [YHS13, YGW15]. outerplanarity [Vo83a]. outindependent [FG06]. outstanding [Joh82b]. oval [Mel13a]. Ovals [Mel12]. Overgroups [Gur97, GL97]. outer-planar [YHS13, YGW15]. outerplanarity [Vo83a]. outindependent [FG06]. outstanding [Joh82b]. oval [Mel13a]. Ovals [Mel12].
DC20, Fer09, Fer10b, KSU22, LS22, MMRR16, SS12, XS18, ZFSX17.


Poincaré [Bed10, Bed11, BX14, Car90, Vo83c]. Pole [–Dok81, CIP17, MHM22, Sch75, Sch78, Wan17a, Zha20a]. Point-sequences [Dok81]. points [BLP12, Beb86, BS15b, BDK+05, CSS21, CCW20, CJK+13, Gei78, Hon92, KM98, LPS13, MS87, NT91, Rao18, SS19].

Poisson [CD15, Kay17, Mar12]. Polar [Jam95, De 08, DP09, Fur08, LMMR01a, PAS16, Pat87, Pat17, SU77, Ter22, ZYL13]. Polarizations [SU77]. Polarizing [Ous15a]. Pole [CFP10]. poles [AM13]. Pólya [SG18, WW76, Whi79]. polyhedra [dLP20]. polyhedral [MM07, Orl71, Tam77]. polyhedron [FS86]. Polynomial [AS11a, BP09, Cal03, CCH14, Mel19, Red02, SA07, Wat77, dTS20, Adh13, ASAS79, Ami11, Ami80, Are22, BB17a, Bra86, Bre14, BM07, Cal94, Cal97, Cal99, Csd17, Dat80, Dia90a, DMdO92, Diu97, FZ11, Fie81, FP17, FdSV16, GA85, GdSV16, GM85, HHC12, HMD13, IS15, IM18, Iop19, JRMFMASS16, KSU22, KLKP17, Kull22, KK16, LLC22, LB19, Lip08, Lit17, Mel13a, Me19b, Reg89, S007, Sun20, SK15a, SK15b, Uhl99, Wim88, WW12, DO75].

polytopically [Kan16]. Polynomials [AP04, Far02, LM85, Mes13, New76b, PT02, Spi76, AS11a, AM13, AS12, AGV9, AADD18, AGZ00, BS15a, BCR91, Ben74, BH74, BG21, BG79, BMP10, BPR12, BPR14, BD13a, BP18, CC17b, CN05, CNUV16, CR22, Co88, DP98, De 90, FM89, FMSS19, FSS19, FW73, Fk94, GAGM8, Gar73, Gar79, GV89, GKL82, GLR82, Gör22, KMP+19, KS07, KK90, KLKP17, KML95, KLZ96, KL92, LRT91, LZ14a, Lon73, LT07, MW74a, MF77, MR97, MP98, Mar90, MRT12, MGAH19, Me18, Mel19, Mel20, Orz84, Ota13, Paz84, PR12, Per15, Pie92c, PV00, Rei77, SA07, Shi88a, SS96, Si98, SL95, Sra20, Tie16, Tre87, Ug21, Vel18, Vel21, WLB19, Wan19c, Wat86, BD22]. Polytope [SHC02, Bru85, BD13b, Hwa85, LZZ17, dF11]. polytopes [CCLL22, CCW20, Har91, Sie99]. Pomerengerke [Bo12]. Poncelet [CN04, Mir09]. Pontryagin [Sin83]. populations [Pan20]. porism [Mir09]. portions [CN08, ERS12]. portraits [LH22]. posed [BHM76]. poset
[Fos05a]. posets [AST05, BC91, KC16, Ste93a, WW01]. Positive
[BBP78, BR01, Cha90a, CIDK07, DH03, DWL14, Grz91, Hil07b, KRR18,
AS20b, AG15, AO76, And96, Bak84, BSM98, Car91, Cha92, Cha93a,
CKS20, CS21b, DM17, DM20, DPP17, DH86, DM13, DGJ+16, DJ98b,
DJL94, DJ98, Dru15, DN18, Fan73, Fan92, FW07, Fla75, FH15a, FS15,
FSY16, GT14, GMZ11, GJM186, GLP92, HK16a, Har78b, HJ19a, HJ19b,
HJ20b, HS88, HNS99, Hil07a, Hil11, HBF18, HM18, HM95, Ibr00, JP15b,
JN80, JOvdD84, JP87, JR09, KMS18, KMT96, Koh11, LS10, LSvdD95,
LM96, LP11, LT11, LT12a, LL16b, LF16, LL14b, LW12, LXS19, Mai11,
Mar13, Mat92, MK16, MP16b, Mol15, MOGN18, ND13, Ori18, Pat92,
Pep9a, Pep19b, PV20, SH21, ST94, SM94, SMBB+15, SM16, SL17,
Sun20, TZ19a, TZ21, Wal79b, WZD16, WCS+21, YH05]. positive
[ZX16, Zha16b, Zha20b, ZL21]. positive-partial-transpose [WCS+21].
positively [NS85]. Positivities [WLX16]. positivity
[CC98, FJM00, JNT96, YHCW14]. possess [PP16]. Possibilities
[SS96, JR84]. Possible [FW07, HLZ05, JL91, Wu09, BF96, Uhl13]. potent
[BT06, BT08b, BLZ10, Den14, HLZ11, McC85, Rom19, Rom20, Rom21].
potential [HMO11]. potentials [HMK22, KMP+19]. Power
[CL21, DK21, KPN13, MF92, MO93, BM07, Bun91, CP15, Gol07, JM85,
KMS21, Le93b, MGA17, New80a, RA21, Rsi20, Tam88, Tan10, TLL11,
TLC16, XLL11, Zha14b]. power-associative [Gol07]. power-compositions
[BM07]. Power-exact [MO93]. powerful [MM11, WY99]. powers
[AGR91, Ash16, Aue98, Bou13b, CFL+22, Coa99, Dru15, FKR93, Fri82b,
GA20, Gar21, Gö92, HL20, JGS90, KW21, KK22a, Mcf79a, MV91, Pat83,
Pok87, Stu99, TT18, Vas87, HOT15]. pp [Aro96]. pr [MR17]. pr-
practical [WSZL17]. Pre [sL19b, DLD21, LW20]. pre-Lie [LW20].
Pre-order [sL19b, DLD21]. Preaffine [DW92]. preceding [Mar82b].
preconditioned [LZ16, ZQ21]. preconditioner [JX20, Zha14a].
preconditioning [CP16]. predictor [Chu84b]. predictor-corrector
[Chu84b]. PREDUSTRAL [BPR12]. Preface [M91a, BLZ12, CK12, KL11,
KL21a, LRT08, LT09, LPW14, LSS16, STZ15]. Prehomogeneous [Ven19b].
prièmres [BC97]. prescribed
[AMZ13, Bot94, BM98, CM92, Cra09, de82, DB95, DS09, Est80, GPM14,
GMD85, Her83, KM10, KLKP17, Min84, Sil88a, Sil88c, Sil88b, Sil90, Sil93,
Sil95, Sil98, Sil99, Th075a, Th075b, TT77, Zab89, Zab90, Zel85, dO75].
presence [FW13]. Preserve [Lim90a, SB03, BCN05, BP89, BP92, CL17b,
HK94, JS94, JLL88, JP07, LT88c, MZ91, Slo16a, Wat77, Wat82]. preserved
[Can80, Ckr21]. preserver
[Ano92g, BLP92, CL01, Hua16, Joh11, MS89, ST08]. PRESERVERS
[BJS15, Ben18, Gup97, HX21, LM03, LS04, LR04, RSo9, SK03, SBMP16,
BPS00, BS92, BL97, BL01, BS01, BSL16, BS17b, BS17c, BS20, BS22a,
BBEL18, BH16, BMGMC16, CL95, CC14, CL05, CLN13, CLMR09, DGG+16,
EBB18, FHL13, FJZ21, GP14, GL97, HQ18, KS12, KP14a, LL16a, Lau81,
LT88a, LT92b, LT92c, LT92d, Lim97, Lim01, Lim10, LT14, Lim15, LRD21,
Loe92, Min77, MSS19, Per17, Sin82a, Slo15a, SA14, TZ06, ZS05, Zha05].

preserves [Coe96]. Preserving [DS04, Dol04, Kob06, Zha04b, AN19, AA21a, AS17, AKS18, BHD10, BP90, BL93a, BEH19, BBBS09, BDS13, BS97, BCS18, BH13, Bot79, Bot87, BM15c, BSO13, BMGMC15, CGY13, Cat21, CCL21, Che14a, CW16, CK20, Cos14, DS13, Dol07, DHB07, EAM19, EL90, Fos05b, FKKSI1, FHL+14, GM18, HR85, HS17, HH16, Hua10, HM18, HZX15, JQ15, JLR+92, Joh11, Jul21, KP92, Kov77, Kun99, Li87c, LT88b, LT90b, LT90a, LM93, LP93, LMR94b, LSS01, LZ01, Lim10, LJ11, LL11, Liu15, LL18, MF79, MR12, MS09, MO13, MDD92a, Mol09, MN12, ME18a, ME21, Nag17, Pet97, Pet10, PR20, Pie79, QH17, Rai87, R04, R06, Rs08a, SH21, Slo13a, Slo14b, Tag12, TH14, TH18, TKS19, TS21, TB92, TXC08, WZC11, WZL13, WJ16, Wat83, Wat85b, XCC99]. preserving [YZ20, ZHH09, ZCZ12, ZX16, ZWW10, ZXF15, ZL17].

Price [TT78]. prime [Cen11, DS13, Far17, JL12, LWZ15, Lin21, New80a, Nor95, Nor08, Per15, QH17, Sta14, Sta15b, BD22, DDA20]. primeness [Per15]. Primes [RS74].

Primitive [BS17b, dSP16a, WYM11, AF11b, CC17b, GSS09, GM21, JKKC22, LL50, LM95, LLL09, Lu92, SSG12, YMS13]. primitivity [BP89]. Principal [CT21, Dru15, LP03, LMMR15, NS92, NS93, Rao81, Vrb86, XFG14, Bn10, Cho82, Dix79, FT21, Fie81, HKT15, HS87, HK16b, Hol84, HT91a, HO17, Joh84, JOvdD84, MR18, Nas75, NTU93, Pri78, ST08, TT78, Tho92b, TDL18, TZ21, ZHZ11]. principle [BdP21, dC13]. principles [LL14b, Sin83]. prism [CLX22]. Private [KP14b]. Probabilistic [BAN12, WW76, Sim83]. probabilities [Ger86, Joh82a]. probability [CPZ17, DPP17, LN14, Sti87]. Problem [Ano82f, CLOT93, Tho82a, Adu15, AHK92, AS11b, AG15, AO78, Ang00, Ano83m, Ano85g, Atk84, BC05, Bap92, Bar88, Bru87, BK87, CC17a, Cal95b, CKLP13, CH12, Che91, CP18, CP21, Cro18, CCLN16, CLW21, Cve95, DLQ18, DS16, DF82, DP18, Dod13, DJS21, DLW13, DCLW19, DN18, FS22, FdF09, Fie90b, Fia75, FH89, Gar85, GB77, Gra93, JDD21, JHC74, JLS85, Joh89, JKK5, JOlvD84, MR18, Nas75, NTU93, Pri78, ST08, TT78, Tho92b, TDL18, TZ21, ZHZ11].

Procesi [Reg87a]. process [DMV18, FSFSO+14]. Procrustes [Rau18]. produced [Tia11a].

Product [AK94, BLPDPS04, CGL+16, GN02, AN19, AF12, AJL18, AHT85, AHJS7, Aze99, BCDF09, BM17a, BS22b, dAB17, BG21, Boa13, BM15c, BM17b, Boz99, BH15b, BZZ10, BM16, CAN78, Can80, CK17, CKR18, ZA05].
CKR21, CM19, CW16, CC21, Cho18b, Con77, CD15, Di 88, DM13, Dra19a, Dra19b, EAM19, FD14, FFK11, Fow80, Gha13, Gör22, Gra10, Gra11, GT98, HZ11, HPS83, Hol85, HH16, HX16, HWS13, HZXL15, IS15, JKH20, dJHLIZ+21, Joh77b, JN90a, JS99, JN00, KT06, KR14, Koz17, LV18, Lee94, fLLL+17, LH21a, ILZjZ19, Lim90a, LMRR01b, Lj11, LMY22, Mar97, MP16a, Mat92, McF79b, MWC22, Mir92, Neu74, Nor95, Nor98, Ota20, PM22, Pat08, Pat09, Rad16, RP22, RW96, Rod81, RC18, SH21, STM10, Sil93, SAV01, SZBW16, SZZY18, TZ19a, Tan13b, Tho74].


Products [Bal77, Bal79c, EM87, Ell95, Gib76, Laf83, MKS84a, O'R15, Pat81, Rod97, ST91, Su08, Wil99, Alp95, AAdFS19, AO97, BK83, BJ75, Bar76, BJ93, BJS15, Ben18, Bre12b, Bre16, BSO13, CW81, CGY13, CL85, CG17, Cz17, Che95b, CKL16, CK20, CG16, DSD83, De 78, DF90, Du10, Erd22, FL16a, FJM00, FHL+14, FIS06, GW15, Gil16, Gro96, Hal91, Har84b, HS81, Hol84, HMSN1, HX21, Hua08, HLH18, Joh74b, JOvdD84, JOvdD85, JN00b, Juli21, Kit91a, Kor04, LL16a, Lim15, LMMR01a, LW08, LFY16, Liu18b, Lx94, MKS84b, NS99, Ng14, NY21, Pat92, Pat08, Pet10, PT87, RS10, Sii90, Sm194, Spi04, SW81, Sur98, TH14, TKT19, TS21, Tan16, TC04, Tia05b, Tia18, Uhl82, Wan80, WC16, WCZ20, Zha89, ZHH09, ZX10, ZVF15, Zim89].

products [dCdSA22].

profile [BL21, LB19].

programming [Bar07, Che92, Gur98, WY21].

programs [Caf13].

project [Gro99].

Projections [XCB18, AHT85, BR10, BCI13, DWCD19, Gal08, KW17, KR07, LD17, MR08, Rei83, Szw18].

Projective [Jam88, Rei75, Den85, LP821, Ng14, Pan13, RŠ06, RŠ08a, RŠ09, SZ5].

projector [Byt20].

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

prolems [EJ88].

prolongation [BBM20].

Proof [Kit81, Rad80, Tho68b, AY95, Aue95, Bar12, BD96, Car20, Fri82a, HL09, Kao11, KA22, Mei18, Min82b, Poo80a, Reg78a, RW84, Rem90, Ro89, Tan91].

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

proper [AMZ13, Ger82, Tho75b, lWW15].

Properly [Fri97, Mar20].

Properties [BD94, EMS02, GZH19, HM77, HK17, JK20, KY17, MeC85, WD17, AAD22, BC82, BZ19, BS17b, BS18b, BM18c, BM19b, CKR21, CL94, CCM18, CJK+13, DST91, Din15a, Dra13b, Dra17b, Dra22, EB17, Far17, FJK22, GCP20, GN20, Gho19, GS0b, Haj18, HLS81, JNBR93, KI16, KW17, KS84, KM08, LZ14a, Lor00, Mai11, MSS13, MRT14, Mar13, MH22, MH12, MCIM21, MAH18, MAH21, NG15, PRS03, PRA22, RP04, SMBB+15, SSW15, ST08, SKM17, SL17, TG09, Tra89, Tra90, VM07, WC12, Ze185, ZW17a].

Property [Che95b, CN04, Ger74, NY21, AHJ20, AHJ21, BP06, BCEM12, CNW21, Can80, CP16, CAP20, DKK+20, DH22, GF10, Har84a, JVMCPR19, LS17, LFY16, LLV18, LC83, MW19, MW21, ME18a, ND05, OS18, Per15, Pop20b, Rom07, Tan74, Wer87, XQ15, ZCCIW12].

pros [LLMN20].

Proving [Red02].

Pseudo [AJL22, FG02, AN19, Bal79c, BS18b, DM79, Mir18, Mos21b, Per19, WW20b, ZZ16, ZP19, ZW20].

pseudo-bundles [Per19].
LS13, LL15, LZ17a, LZL18, LZ19c, LGZ20, LL10b, LY22b, Man91, MO94, MP96, MS21b, NP13, NG15, Oku93, OST20, OM21, Pep11, Pep19a, Pep19b, RSM21, SM21, SRS21, SYZL17, SHS17, SKLS20, SZWB16, yT86, TJ11, Ton87, WH11, WZ18, WWW20, WMFW21, WY20, WDJ10, XSW21, XW19, XZL14, YSY17, ZMCN19, ZQC18, ZHH09, ZG11, ZL19, ZW17a, dLP09.

Rado [GX17b]. Radon [AYC93, GP74, HJ20b, Lee98]. raising [GR81].

Randić [Yin21]. Random [Tan13b, CMR21, CLX22, Che18, Din15a, GLLM21, HL18, Ra18, Sha15, TXL21, TJ16, Zen22, ZZ21]. random-effects [TJ16]. Range [AMP02, BK83, BD94, CN04, CT96, CT96, CT09, CL13, Chi98, CNP05, CNP06, CN07, Ch11, CN14, CGL+16, CH10, CKP09, Cro08, DeVE20a, EM15, FT87, FMX18, Far93a, GW98b, GW08, GS21b, Gro96, HH16, How80, Hu89, HT91a, Hu90, IOMA21, IOMAN21, Jam88, Jam95, JLL07, Jon92, JR93c, JR94, LLS14, Lei92, LT92a, Lei93b, Lei95b, LT88a, LT88c, LT91, LMR94a, LS01, LPS09, LTP09, LT09, LD17, LWC22, LP16, LTT11, Man87, Man91, Mar75, MF79, MS79, MW80, MS82a, MS87, MS15b, MS16b, NNT95, Nak95, dSP16b, Poo80b, Poo94, PV00, Rod08, RW21, RS08b, ShDHG08, ST80, STZ94, ST96, Spi00]. range [Tam85, Tam88, yT00, TS19, Tho80, Tho87b, Tsi81, VZD16, Wes75, Woe08, WC12, YC19, Yua98, bPFZH08, LLS16]. Ranges [BLdPS04, Ber02, BS04, LS04, LR04, LoC74, Abo20, AM21, AyT84, BdP08, BdP12, CKL+21, CGW14, CL17b, Che14b, Che17, CN05, CN08, CN15, CLN21, CL00, CGHK08, CLMR09, Da94, DHKSH08, ERS12, FHL+14, FL16b, GW12, GWWI6, GS21a, Goe79, HT91b, HL21, IOMAN21, JNBR93, K21a, KPL+09, KP14b, Lei93a, Lei98, LT92a, L194, Li96, Li98, LPT11, LD19, Mag13, Mag14, Man92, MP87a, MR97, MP98, Sza09, Tam94, TGW14, Tsi81, YLC19a, YLC19b, vD96]. Rank [BT11, BP500, BL97, CM15, Ch10, CL01, D013, EL90, Fer09, Gal01, GVS96, JT03, KP14a, March13, MF92, OW02, Pat03a, ST09a, So99, SLH16, Tia01, Tia02, Wal79b, AM21, AW83, BHD10, Bal14, Bl194, BOvdD91, BL01, BL01, BS16, BS22a, BdP12, Ben90, Bén11, BHH+11, Bot87, CKL+21, CFSGL18, DT21, CCL1, CCS98, CGW14, CT16, CHL18, Che14b, CLN21, CGHK08, CLN13, CK19, CKT20, CL21, CLMR09, CP18, CP21, CO12, Dec95, Der61, Der18, DM18, DM19, DR18, DH16, FT21, FW13, Fie18, Fra17, Ful76, FS89, GRMA13, Gon17, Gro99, GW21, Gur79, GL83, Hai88a, Har81b, HHY22, HS87, HLZ05, HK894, JW91, KS12, KP14b, KRR18, KS17b, Kuz05, LAF78, LL16a, Lao81, LPL23, LPS09, LGA+13, LZ19, LZ22a, Lim90a, Lim92a, LT14, Loe93a]. rank [Loe93b, Loe01, Lon80, Lon81, MS16a, Mar11, MR18, MMRR16, Min77, MS18, MS15b, MS16b, NS15, Ned98, Ore19, Or118, dSP16a, Pet09, PV20, Rub20, SD12, Šem97, SMBB+15, SH15a, Shi16, SMF95, Si88c, Si88b, SS12, SMRP16, SKP18, SL21, SF17, Tia05a, Tia05b, TWZ16, Tia17, Ven19a, Wan79, Wan15, WM17, Wan19a, WW20a, Wat58b, WLM21, Wes80, Wes81a, Wes87, Wes90, Woe93, Woe08, Wu09, WW12, XL17, YLX20, Yan21, ZS05.
Zha05, ZY17, ZXF15, Zho16, SLH18. 

**Rank-**

[CM15, KP14a, BL01, Che14b, CL21, Fra17, Loe93a, Loe93b, SF17, XL17].

**rank-1** [YLX20].

**rank-additivity** [Har81b].

**Rank-one** [Cho10, CL01, BHD10, Cat21, CCL21, DH16, FT21, MMRR16, Ore19, SKP18, ZS05].

**Rank-preserving** [EL90].

**rank-subtractivity** [Zha05].

**rank-sum-maximum** [Zha05].

**rank-sum-minimum** [Zha05].

**rank-two** [CLN13].

**Ranked** [PM78, BC91].

**Ranking** [VDW85].

**Ranks** [HS93a, LP08, MS74, SK03, Tia03, AC78, BB14, BB19a, BS92, BS17c, Bot94, FT21, FKR93, HK79, Haw05, KJ13, LGA+13, Lim15, MSS18, MRS10, Pat87, SMS15, SMS21, Tia11b, Tia18].

**rate** [Doo16].

**Rational** [AMP02, Afr73, AMZ13, Bri89, CM85, Fei75, LR96, MZ04, Ota13, RR91, SI84, Tre85, Tre86, TSYB82, Uhl79].

**Rationality** [Fri90a].

**rationally** [DH91, Tre87].

**rationals** [MV75, New93].

**ratios** [Sra20].

**Rayleigh** [AB78, BdPNdP17].

**rays** [Pat03b].

**reachability** [NS85, NST91].

**Real** [ABC18, Joh81b, LP02, LHS+21, Slo13c, SB03, Ven19a, Wes81a, haYs99, AF11a, AF11b, AF12, Adk95, AS12, AGZ00, Ball4, BS92, BB75, BPR20, CS21b, CO12, CIDK07, DH86, Deu80, Doku8, Drui15, EJ91, Esc93, Fan73, GP14, GW17, Gon17, Gue19, GHK16, Ha89, HW13, HW14, HS88, HL11, Jin17, JKB17, Joh84, KML95, l19b, LS16, LM93, MMRR16, Mes90, Mir09, Moh16a, NP91, OTR15, Ota13, Pal79, Pas15, Per17, RS06, RS09, Rom89, SU77, SL15, SMS15, SMS21, SK15b, TT12, Tho75b, Tie16, Wes80, Wes81b, Zha01a].

**real-positive** [CIDK07].

**realizability** [JMP17].

**realizable** [LS10].

**realization** [JMS15].

**Realizations** [NU94, AM90].

**realizing** [CJK+13].

**Realtl** [SU77].

**rearrangements** [TI77].

**Reciprocal** [AH16b, AHJ20, AHJ21, BNP06, HINS10].

**recognising** [Gre99].

**recognize** [Han21].

**reconstruction** [FM21, SS07].

**rectangles** [Lor14].

**rectangular** [AA21a, BCR91, Car19, CKP09, Cra91, HZ20, LT88d, MHH96, Mis17, MS19, ZS05, ZL18, Zha19].

**recurrence** [CR22, Kom10].

**recurrences** [PSW18].

**recursion** [BVW84].

**recursive** [T221].

**reduced** [Car06, RA21, YTL20].

**reduces** [For79a].

**reducibility** [OR09].

**reducible** [Cav10, CNP06, CN07, GSS09, Irkr15b, Stu89].

**Reducing** [OW02].

**Reduction** [BZ22, BT90, CS18, FN14, Gal01, GRMA13, HH85].

**reductive** [Koh11].

**Referees** [Ano11b, Ano10].

**Refined** [KK13, WW20a, BM15a, IgW99, Sha20].

**Refinement** [Mel20, YLC19a, You15].

**Refinements** [Al21, Bak16, Dra11, LS15, TGW14, Dra19b, SG18].

**Refining** [Bap88].

**Reflecting** [AFVL00].

**Reflection** [LM03, Ell93].

**reflections** [DM79, EM87, Ell95].

**Reflective** [Mia93b, AH13, CIN15, Had83, Ha18, Qi15].

**réflexivité** [Del94].

**reflexivity** [CHK00, Del94].

**regarding** [DJ99a].

**regional** [JLR+92].

**Regions** [LS04, LL14a, MH20, Ano22a].

**Regular** [CZHZ22, KS15, Peñ02, AG16, BCEM12, CP81, CLW15, CP18, DFK19, DP17, DGR08, EB17, FG06, Gol06, HS95, KMS16, Koo95, LR13, LM10, MS10c,]
regularized \[DPP_{17}\].

relevant \[Szw_{18}\].

to represent \[CG_{22}\].

representable \[CG_{22}\].

Reserch \[Bru_{87}\].

Reserch \[Bru_{87}\].

residues \[PY_{18}\].

Resistence \[BBG_{22}, AAB_{20}, SWZ_{15}\].

Resistances \[CMM_{17}\].

resolvent \[Gil_{16}, Gil_{14}\].

result \[AyK_{17}, BB_{17a}, Das_{21}, Har_{84b}, JLL_{11}, New_{74}, New_{82a}, Poo_{80a}, Rich_{87b}, Tam_{91}, ZZY_{16}\].

resultant \[Bar_{80}, BL_{21}, GKL_{82}, Orz_{84}, XW_{22a}\].

Results \[Go_{22}, JK_{20}, LN_{98}, Tau_{74}, TH_{80}, AG_{22}, AEAAE_{20}, AAK_{16}, AN_{14}, Amm_{18}, BL_{83}, BHK_{78}, BM_{17a}, BLZ_{11}, Boa_{19}, BZZ_{10}, BSZW_{13}, CL_{13}\].

related \[AG_{22}, AkK_{17}, Ala_{16}, AGR_{91}, AV_{22}, Car_{90}, CKL_{13}, CN_{14}, Cho_{18b}, CL_{01}, CR_{22}, DP_{18}, For_{79a}, GX_{17a}, Hon_{92}, LPT_{13}, LT_{87}, LFY_{16}, MGAH_{19}, McD_{92a}, Mcf_{79a}, SMBB_{15}, Sin_{84b}, Sto_{79}, SK_{15a}, Ta_{01}, Tra_{84}, WZ_{14}, XQ_{15}, YGC_{19}, ZW_{19}, ZBW_{12}, Zou_{20}\].

rejection \[Wh_{74}\].

related \[AG_{22}, AkK_{17}, Ala_{16}, AGR_{91}, AV_{22}, Car_{90}, CKL_{13}, CN_{14}, Cho_{18b}, CL_{01}, CR_{22}, DP_{18}, For_{79a}, GX_{17a}, Hon_{92}, LPT_{13}, LT_{87}, LFY_{16}, MGAH_{19}, McD_{92a}, Mcf_{79a}, SMBB_{15}, Sin_{84b}, Sto_{79}, SK_{15a}, Ta_{01}, Tra_{84}, WZ_{14}, XQ_{15}, YGC_{19}, ZW_{19}, ZBW_{12}, Zou_{20}\].

relating \[JL_{88}, Li_{91}, Pat_{82}\].

Relation \[CD_{02}, BCM_{18}, CC_{92}, Che_{14a}, Chu_{22}, GZ_{76}, JR_{93c}, JR_{94}, Kom_{10}, LST_{89}, LT_{92d}, PT_{87}, Put_{82a}, San_{18}, SRX_{18}, Sin_{83}, Tam_{91}, XS_{18}\].

Relationship \[WW_{12}, DMV_{18}\].

remark \[B_{87}\].

remark \[B_{87}\].

remarkable \[JLL_{88}\].

Remarks \[BSM_{98}, For_{79c}, Lim_{88}, Goo_{97}, Odo_{83}, YT_{15}\].

Remarques \[Rev_{81}\].

Rényi \[DDF_{22}\].

Replacing \[dCd_{82}\].

report \[LRT_{08}\].

representative \[CG_{22}\].

representations \[B_{21}, KL_{19}, CH_{10}, Fan_{88}, Fri_{90b}, GT_{79}, Hul_{81}, Mar_{82b}\].

representative \[MN_{96}, WW_{80}\].

representing \[RD_{12}\].

Reproducing \[BR_{04}, GGGA_{21}, YGC_{19}\].

require \[BJ_{98}, EJ_{91}, Exc_{93}, KMT_{96}\].

requirements \[JS_{91}\].

Research \[Ano_{82f}, Ano_{82g}, Ano_{83m}, Ano_{84e}, Ano_{84f}, Ano_{85g}, Ano_{86e}, BC_{05}, Bab_{92}, Bar_{88}, Cal_{95b}, CLT_{93}, De_{84}, EJ_{88}, Fri_{88}, Gra_{93}, GM_{87b}, JC_{74}, Joh_{89}, KPI_{09}, LMMR_{01b}, Mer_{91}, RP_{04}, Sch_{91}, Sol_{06}, TT_{85}, Tau_{73b}, Tho_{82a}, Tho_{85}, Tho_{87b}, Tho_{91}, WW_{01}, Zha_{92}, Ano_{97b}, LW_{96}, Mer_{79a}, Zha_{00}\].

Reserch \[Bru_{87}\].

residual \[CIP_{17}, Guo_{20}\].

residual-based \[Guo_{20}\].

result \[AkK_{17}, BB_{17a}, Das_{21}, Har_{84b}, JLL_{11}, New_{74}, New_{82a}, Poo_{80a}, Rich_{87b}, Tam_{91}, ZZY_{16}\].

resultant \[Bar_{80}, BL_{21}, GKL_{82}, Orz_{84}, XW_{22a}\].

Results \[Go_{22}, JK_{20}, LN_{98}, Tau_{74}, TH_{80}, AG_{22}, AEAAE_{20}, AAK_{16}, AN_{14}, Amm_{18}, BL_{83}, BHK_{78}, BM_{17a}, BLZ_{11}, Boa_{19}, BZZ_{10}, BSZW_{13}, CL_{13}\].
De 82b, DCIW10, DW12a, DHT94, DIF13, GHL10, GX17a, Guz88, He21, KCICV18, Li84, LT87, LZT18, MR97, Mou13, NS85, New75, Nie10, PS22, SMBB+15, Sin82b, Sra20, SWZB15, Tam77, WC15, mWyD11, Wer87, YGC¸19, YWZ21, ZCP16. Retarded [DGR08]. retrievable [FM21].

Retarded [DGR08]. retrievable [FM21]. reversal [Kir93]. Reverse

Reverse-order [PBM20]. Reversed [DL14, Bak16]. Reverses [BM15b]. Reverse [CIN15, CIM19, KM11, LW08, PB17, BS18b, CID16, DD14, HK016, LTY16, Ota20, RW84, Sha20, WZ14, XQ15, XQ16b, ZL10].

Reviewers [Fan81, Kap80, Lei81, Tho83, Yaq80, AK78, Ano83a, Ano89a, BFMM73, Con94, Fan84, HS81, Hnm83, Joh83, Keg87, MT83, Mer98a, Pie92a, Sch92a, Sha95, Sko85, Sta94, Tho82b, Tho82c, Tho82d, Tho82f, Wat84a]. Review [Fan81, Kap80, Lei81, Tho83, Yaq80, AK78, Ano83a, Ano89a, BFMM73, Con94, Fan84, HS81, Hnm83, Joh83, Keg87, MT83, Mer98a, Pie92a, Sch92a, Sha95, Sko85, Sta94, Tho82b, Tho82c, Tho82d, Tho82f, Wat84a].

revisited [CBQW19, DD14, Ere15, FMSS19, FHL+13, Joh90, JZ95, Per17, Vel18, Wan19b, dF19]. Revisiting [Lip87]. Ribbon [FJK14]. Riccati [CK84, DLL19, FN14, Ig99, LRR87, MWC22, NF19]. Richardson [AW13, AM90, BG90]. Richman [BHM76]. Rickart [Cir15, Cir16, Cir17, Kre16, Mar15, MRD15]. Riemann [CN21, Red02].

Riesz [BCM18, CDJ13, CG22, DMV18, FJS14, HSM17, ZQZ21, ZC17]. Riesz-representable [CG22]. Right

Rigidity-preserving [BCS18]. Ring

rigid [BCS18, COK20, CSG22]. Rigidity [BCS18]. Rigidity-preserving [BCS18]. ring

right-star [MRD15].

Rings [GMR81, RR04, Rao81, AH10, ÁBw16, AW13, AELL20, AA20, BY19, Bas17, Bas19, BRL12, BCI13, BB17b, BDw12, BDw16, Bre21, CL22, CS18, CQ22, CG19, Cir15, Cir16, Cir17, Coa99, CZ22, DPvW13, DS13, DD15, DJS21, Ere15, FJK14, Fog73, FsvW11, Gar21, GV89, Gus81, Haw05, HLZ18, Hou21, HLH18, HZ20, Jam88, Jam95, JZ21, KW21, KK22a, Khr16, KL12, KR07, Kre16, LPT14, LWZ15, LC18a, LL10a, Lin21, LCL14, Mar15, MRD15, Mar18, MP13a, MP87b, MCIM21, McD92a, Mos21b, New85a, PA10, Pre22, QZ16, QH17, RS08a, SM19, ST97b, Tan20b, TZ17, Tau73a, Wan16b, Wan19b, WM21, Wat85b, WY18, BD22, YW05, YQ90, ZW610, ZY98, ZC16, Zhu19, ZW20, ZC18, DDA20]. Riordan [PS21]. Ritz [RW21].

Rohr [Rub20]. role [MN96]. Root

[Har92b, BAN12, CGH15, EJD88, FZ11, Hai92a, Melt13b, Mey15, vBW95].
rooted [Muk20, RP22]. roots [AAT16, CL74, HHC12, IK19, JN80, KN81, Nom73, Ota13, Tie16, Uhl99].
rootsystems [Hai88a, Hai88b, Hai97]. Root [FW73, Gar73, GG22, KKL20, LW20, ML16]. Rotata-type [KKL20]. rotation [GTM14]. rotational [Sjo93]. Rotations [Edw80, Edw78]. Rotfeld’s [FL16b, HWY17, HWZ18b, YLC19a, Zha15b, ZN18]. Roth [FW13]. round [Spi00].
Row [Joh81a, JP17, SS12, CPKK22, FV97, Har81a, Kap77, LSOvdD95, MH19, MH21]. row-adjusted [MH12]. row-sums [MH19]. RS [GTLN18]. RSVD [LT10]. rule [BG90, CRY95, Che93b, KKL20, LW20, ML16].
Rota [FW73, Gar73, GG22, KKL20, LW20, ML16]. Rotations [Edw80, Edw78]. Rotfeld’s [FL16b, HWY17, HWZ18b, YLC19a, Zha15b, ZN18]. Roth [FW13]. round [Spi00].
Row [Joh81a, JP17, SS12, CPKK22, FV97, Har81a, Kap77, LSOvdD95, MH19, MH21]. row-adjusted [MH12]. row-sums [MH19]. RS [GTLN18]. RSVD [LT10]. rule [BG90, CRY95, Che93b, CPT15, Wer84, WY18]. rules [Che93a, Kyr08, Kyr11, MS10a]. Rutishauser [TT15]. Ryser [MS85a, New83, PS22].
Scalar [Est80, AF12, Bre15, GS21b, PY82, Rod81]. Scaled [KKL20]. Scarpis [Dok17]. scattering [MS10c]. Schatten [FNBR96, So90, YLC19b]. Schmidt [LF15]. Schneider [BHM76]. Schröder [RS18]. Schrödinger [HMK22].
Schur [AS20a, AO97, Bap88, BT06, BS18b, Bun91, CRY95, CPLH17, Dia79, DS02b, Dra21b, ES98b, ES00, FJ15, Gö22, GMZ11, Gür83, HS75, JK10, Kim91, LM98, Liv94, Mas10, MO94, Neu81, NT86, PN22, Rem90, SV14, Smi83, Tam02, WZ97, Wat86, Zha04a]. Schur-concave [Tam02]. Schwarz [Dr11, Dra19a, Dra19b, Okt91, Ota20]. science [FHL13]. score [Kir91].
scrambling [GM18, GM21]. SDB} [JLL18]. SDB-tensors [JLL18]. search [CSCH01]. Searching [FK91]. secant [BB19a]. second [Ano79c, BPW16, Cam83, Das21, DTSI15, DfF15, Gro85, HSX16, Hl07b, Jan81, LP00, LLF08, Lim09a, LxG17, Sim95, Sta10, SKLS21, VY21, Wal11, XZ16, XSL15, YZ20, YCZ21]. second-order [DTSI15, HSX16, Hl07b, XSL15, YCZ21]. sector [FL16b, HWY17, LF21, YLC19a, YLC19b]. sectorial [Ala20]. seeds [JP15a].
Segment [Vo83c, Vo83a]. segments [GW08]. Segre [BB19a, BB13, BU20]. Seidel [AAD22]. selections [LP16]. Self [BL83, OP13, BP19, Din15a, FS14, FS19, Gil7, HH16, HX21, Kit91b, LLMT05, Sin84a, Tan13b, WW20b, Xs18].
Selfadjoint [JR93a, Dra10, Dra11, ELG88, GLR82, GR93c, JR93b, KML95, KLZ96, MP98, Rod08, TZ19a]. Semi [Kmu85, AFM13, Amm18, BFM20, BCM18, Cha90a, Cha92, Cha9a, CH10, Chu84a, DGGJ 16, GCSC20, Gol89, GBM21, Har78b, HPV84, HPV88, dHjLZ+21, JP87, LL16b, fLL1+17, LL14b, Liu16a, Lsx19, MSS13, MS09, MO13, Pat92, RC18, RSM21, SMS21, Yu14].

63
semi- [LL16b]. semi-Browder [AFM13, BCM18]. semi-definite
[Cha92, Cha93a, Har78b, JP87, LL14b, LSX19, Pat92]. semi-definiteness
[Cha90a]. semi-direct [RC18]. semi-finite [Liu16a]. semi-Fredholm
[Amm18, MˇS09, MO13, Yu14]. semi-Hilbert [GBM21]. semi-Hilbertian
[BFM20, MSS13, RSM21]. semi-hyponormal [CH10]. semi-monotonic
[Chu84a, HPV84, HPV88]. semi-tall [SMS21]. semi-tensor
[dJLL17, fLL17]. semibounded [Uhl82]. semidefinite
[BHH+11, Caf13, CS21b, DM13, DJ89b, GLP92, HS88, HNS99, HM95,
KR818, LW12, MM06, Mat92, NS15, PV20, SU77, SM94, TZ19a, Tra84].
Semidefinitem [SU77]. semidirect [Che95b]. semifinite
[BZ19]. semigroup
[RS07, RS74, cc85]. Semigroups
[BC78, AAJ12a, Ber05, CS10,
DGJ+11, Caf13, CS21b, DM13, DJ89b, GLP92, HS88, HNS99, HM95,
KRR18, LW12, MM06, Mat92, NS15, PV20, SU77, SM94, TZ19a, Tra84].
Semimodule
[CL22, LT14, Tan16]. Semipositivity
[JKS94, Wer94]. semiprime
[DS13, DD15]. Semiregular [Pow88, DGR08]. semiring
[AAJ12a, BL93a, BS12, CL22, DD02, ILPW16, Moh15, MP16b,
Shi15b, ySPW14, ySPW17, ySPWQ21, Tan13a, Tan14, Tan18a, Tan18b,
Tan20a, Vla22]. Semisimple
[AKOZ20, DR18, FW13]. semisimplicity
[MHA17]. Semitransitive
[RT09, BM14]. Sensitivity
[FS22, LZ19a, jXL15]. separability
[Joh11]. separable
[Lud21b, Raj09]. Separating
[Kan94, ST22]. separation
[KN81]. separator
[HRMP95]. sepr
[HOvdD20]. sepr-sets
[HOvdD20]. sequence
[BT15, BM93, Car88, DTS14, DV19, ESAJ18, Har84b, HSM17, Hua01, KI16,
MR18, MM20b, Ogu20, PS20, RF19a, TD14, TD16, Ta17, TD19, Tom19].
Sequences
[Rei77, ACJ17, AM90, BB19c, BS15b, D081, Gro95, JVMCPR19, KL13, MR17, MGAH19, MS10b, SLUG04, Zar01]. sequential
[CW91]. Sergeev
[BG90]. series
[Bed10, Bed11, BX11, BB14, Car90, Chu22, DST91, DL92, Dok93, For79a, SES21, Sp176, Yuz84]. Sesquilinear
[Lee15, LMR94a, Nak95]. Set
[BS97, F902, AFJK17, ASAS79, BP98a,
CCS16, DM22a, FGMS19, Fra17, HM77, LT11, LT12a, LL16b, LZ16,
LRD21, Mel10, Pat07, TJ11, Wan79, WL18a, YMYS13, Ze85]. Sets
[MDdO92, EMS02, BT90, BC85, Ben10, BDK+05, BMP10, Bra86, BS08,
CP13, ES00, EV77, FTA20, Fri84, GS06, GZ76, HS91, HLOvdD20, JT95,
KOVDD09, Law19, LXQ21, Lei18, LT88a, Li92, LP93, LLL15, New85a,
Pepl91a, Pie92c, Prz92, SL19a, SRW07, ySPWQ21, SSZ93, Soa08, Szoa9,
Zha14b, ZL18, Zha19, vD96]. setting
[FW73, GKT97]. Seven
[NW02, Hai88b, Wes80, Ces81]. seventh
[Gar21]. Several
[Orz84, ZHLZ13, Zhu18, De 75, GJR97, GHL20b, Paz84, dD75]. SGB
[JZL20]. SGB-tensors
[JZL20]. shape
[Hug90, Jon92, KG13, LH13, Tsi81, WBZ14]. shaped
[CT96]. Sharp
[JRMFMASS16, LS12, LS13, Luo19, Rho94, Rum97, YSY17, FMS19, Gil17,
ZL17a, Mit92]. sharpness
[KMN01]. shell
[CNP06]. Shemesh
[JP15b]. Sherman
[SC20]. Shift
[BR04, BG86, CNUV16, Tan94, TGW14]. shifts
Short-completion [BS18c].

Shoda [BS18c].

Shoda-completion [BS18c].

Sign [BJS98, EJ91, Esc93, FHL+13, JWP98, KS02, KMT96, Kir11, LGA+13, MOTvdD03, Peń02, Reg87b, AG16, Cai93, Car06, GS06, GSS09, Hem93, HS93a, HLOvdD20, JvdD88, JP07, Kim13, LLS10, LLL09, LHbL+15, MM11, Ma15a, MRRR16, Rem88, SR22, Tl77, WYM11, WW01, YMY13, YHCW14, ZBW12].

sign-balanced [WW01].

sign-central [Kim13].

Sign-patterns [KMT96].

Sign-regular [SR22].

Signal [FM21].

Signature [HR85, GLR82, WT16]. signatures [PT10]. Signed [HP03, ADHM19, BPW16, BB19b, BOC21, BP16, Dua22, FDD14, FKC19, GVS96, KS17a, MR18, Ram22, SSG12, SRD19, SR22, Tl77, TWZ16, Wan19a, Wan05].

significance [ShDHG08]. Signless [LLP18, MH16, WBZ14, ZJ15, ABGP21, AH16a, Ash16, AOTR11, CHQ18, CZ21, DAI9, Das21, FYIS13, HL22, LZ11b, LS21a, LL15, LZ15b, DL17, YL22b, LHH18, SYZ17, SHS17, TYC21, WH11, WZ13, XZL14, XLS20, ZW17a]. Simić [Ano16b]. Similar [Bou13b, Jhi81a, CLNT17, Liu18b, Lon90, Slo18a]. similarities [Bal75, Bal76, JP17, LTR9b, Ltr91]. Simplicity [Bal75, BB75, ES09, Gur97, New82b, New85b, RJ04, Wat84b, BGdH82, CG82, CR77, CS81, DHB07, DHH99, GL97, Gus81, HX21, KT19, Kur04, LTR9a, LTR2c, LM93, WM74a, Rob75, SiL88c, SiL90, SiL93, SS96, Tia11c, Wat82]. Similarity-preserving [RJ04].

similitude [Vin06]. Simons [Raw81]. Simple [MP87b, ALPM20, BHH+11, BZ22, Che07, CW11b, CX12, Chu84a, GT11, HPV84, HPV88, LQ95, Lip96, RZ17, Tan18c, WY11]. simplexes [ST86]. simplicial [War81]. simplicial [Tam77]. simplicity [Mar00]. Simultaneous [AY74, BT90, Grü76, Laf78, Bed10, HH85, MS10b, Uhl79]. Single [Mer83b, DoK09, JP87, Mel13a]. Single-hook [Mer83b, JP87]. Singular [BI95, GHT11, Hill17, LTR2b, MS85b, Mir81, NS99, RS17, Rum97, ST00, ZL18, AG22, AJL14, AJH87, Bap87, Bia85, Bot94, BC94, BZ11, CQW16, CS19, CH87, CZ22, DLI19, DDF15, Dff97, Fra13, GA18b, GRSW92, GL16, HRT15, JN90b, Kar83, KS09, SL19b, Lèg91, LI84, LT90a, LT93, LP93, LI95, LI21b, Matt92, MS12, Nie10, NF19, RS07, RIC78, SDL10, Tho75a, Tho75b, YZ16, Zha00, Zha20a, Zha19, Zou20]. singularity [BL21, LB19, Shih5b]. Sinkhorn [Car91]. Six [Min74c, Hua01, LHS+21]. six-term [Hua01]. sixth [Wan07]. size [KS93, KS17a, SKLS20, SKLS21]. Skew [CS10, CT16, AN19, AM13, AADD18, Arm17, AA20, BZZ10, CT09, Chu90, DD15, DH11, DLSS18, Fur11, Gog21, GTLN18, Gon17, Kyr11, LW17, LTT11, LCL14, Lop11b, Lop18, MS16a, Mat92, Neu83, NoF15, PM85, Rod97, TKT19, Zha16a, ZLZ+22, QZ221]. skew-adjoint [AA20]. skew-circulant [ZQZ21]. 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, LLT93, Mes13, Pat83, dSP11, PGLM00, SS12]. smallest [CL86a, CL86b, Dec95, LLF08, LHH18, PLH01]. Smith [Arz17, BK17, Cha96, Der83, GRMA13, HS96, IH11, Koo95, LLC22, LT12b, New94, Pro95, Tho88]. smooth [Rao18]. Smoothness [Sai21, SPMR20]. sole [dSP12]. Solution [JSY14, AHK92, ALP94, BZZ11, Che93b, Che93a, De 13, DM22a, DWL14, FS19, Gra80, HKT15, HW14, HBP18, HM18, JS84, JN14a, MK16, Min80a, SLH20, SPM14, Veit83a, WZH13a, WZH13b, WX21, WL22, YL11, Zha04c, Zha16b, ZL21]. Solutions [DH03, Fla74a, Tia03, YCZ21, Bak84, BBP78, CC17a, CH12, CCL10, CDF21, CIDK07, CID16, DH86, DH11, FH16, FNW18, HW15, HSX16, HWL21, dJfLlZ+21, Kyr21, Li85, LD19, Pen15, PM78, Son14, Wan15, Wer84, XSL15, YZL17, YTL20, ZLZ+22]. Solvability [Lev74, fLLL+17, VM18, YqS16, AG15, CIRW21, HWL21, JvdD91, KP11, Lip96, Mi12, Tia00, vWZ19]. Solvable [ACO21, AK21, KS02, BL10, BCS18, CSG22, CLOK13, Far93b, KLO14]. solve [BS17d, HM20, LT10, PLPC19]. Solving [BB19c, Kul22, ST97b, CW20, KM17, fLLyP15, LQ19, LC18b, LW10, WX19, XJW17, ZV19]. Some [AA20, BK17, Bel15, BH74, BM18a, BZ89, BSA17, BD14, Cal94, CGOT13, CGMR11, CKR21, CB22, CL13, CM15, CL01, CIRW21, DP17, Deu80, DHT94, Din15a, DDD70, Dra21b, EL09, FD12, Fen10, FLT20, FH15b, GGGA21, GA18a, GS21b, GS21a, GP15, GT11, GLLM21, GC22, GL97, HE20, HW15, Hua16, HLH18, HWZ18b, IOMAN21, JKD16, KMR89, KS19a, KSMB16, KT06, Kop94, KAE22, KL92, Lei95a, LT87, LT88a, LPS13, LH21a, LD19, LF21, Mah82, MSL13, ML21b, MP87a, Mar89, Mar00, MT11, MM07, Meh84, MOG18, MO19, Mou20, Mou13, Mou20, New80b, Nie10, PN22, PLLL20, PP16, PMI8, Reg93, Rho87, Rho90, Son14, Sta84, SL17, Sui98, TKT19, TL12, Tra89, Tra90, WX19, Ye11, ZW115, ZL22, ZL20, ZBW12, dC15, dC18]. sorting [CW91]. Soules [Pat89]. Sp [Ber86]. Sp-modules [Ber86]. Space [BldPS04, AC15, ACO21, Adh13, Al62, AGR91, AJL22, BDK21, Beu85, BHK21, Byt20, CDJ13, Cla92, CR77, Das17, Das18, DTS14, DLD21, Dok83, EB17, F1a75, GGGA21, GJR22, HT12, How80, IK20, JVMCPR19, JS15, 66
LYZW12, LRD21, MW18, MS88, MM09, MC19, MM20b, MN13, OM21, Pat77, PS20, Rob75, RF19a, RSM21, SPMR20, ST19, SA10, TD14, YGÇ¸19, ZMCM19.

Spaces [AW83, BR04, HLZ02, LT92d, dSP12, Wes74, Wes87, Zha04b, AF12, ACMS10, Atk84, AY84, BB22, BFM20, BT13, BBT07, Bar07, Bea85, BL97, BdPN14, BZ89, BPR12, Boz97, CMR20, CKS19, Cha79b, CL83, CSS21, CZZH22, Che91, CLN13, Con77, CDF21, DH17, De 08, DP09, DV19, DH20, Dok90, Dra10, Dra11, Dra16, Dra18a, Dra19a, Dra19b, EJKA07, Edw80, ESAJ18, Erd22, EBB18, FU20, FGMS21, FLR85, Fri97, FZ21, Gil16, Gra80, GMB21, GX17b, GLL21, HSM17, HS85, Hol95, HF18, HCS19, Ik20, IKR12, Jam95, JS20, KC16, KI16, KL15, KT83, Kru06, KMOE12, LMTO5, LHLS18, LL20, Lim90a, Loc01, MSS13, MID17, MZ91, Mer78b, Mes90, Mol15, MAT22, Mos19, Ogu20, Ota20, Pan15, Pas15, Pat17, dSP16a, dSP16b, Pet09, RT09].

Spaced [RS85, Rao18, Rod81, RŠ06, RŠ09, RF19b, Sai21, SRBB22, SES21, SZS5, Sel81, Sha18, TD16, Tal17, TD19, TZ19a, TZ06, Til77, Tom19, Vel18, Ven19b, Wan82, WWS19, Wes90, Wes95, YQ90, ZS05, ZCZ12]. Span [Zha01a]. spanned [Bun94]. spanning [DWL20, FTA20]. Spans [How86]. spark [AB19]. sparse [CW20, Sol14]. sparsity [SM94, tHK17]. spatial [LMMR15, ZQZ21]. Spect[h] MMR07]. Special [Abd20, BE20, LPT13, AG16, Bas17, CL91, CL17a, –Dok09, GA18a, HS83c, Joh81b, JLL88, KL21a, KS76, KV13, LT09, Ma15a, Ma95, New80b, Phu80, Pop14]. specializations [MF77]. specific [Shi81]. Specified [Che03b, Ano79b, Kap77, Kir14, PRS03]. specifying [Joh77a].

Spectra [AGH+22, BP16, DWCD19, ESAJ18, Gol16, Gol21, JKK20, LZ15a, LPT11, LM10, LZ14b, MOTTvd03, MGA17, RP22, YW19, BHC16, Bar08, BS17a, BDS13, BJS15, Ber05, BPR20, CL17c, CTV20, CD5, Cro18, CD5, DK17, Fri82b, Fri12, GR93c, GM90, JKID16, JP17, JMS15, Kra06, LS10, LDL17, LXS11, LS1b, Meh84, Mir18, MA15c, NP15, NP09, Sai21, SES21, WZ13, X51, XS18, ZLS11, ZG08b].

spectra [KRR18]. Spectrally [BM12, CM07, GHT16, IS16, MY12, ZHLZ13]. Spectrum [GMZ17, KLZ96, LMTO5, PS20, Rod03, Sen83, Zen22, AN19, AA21a,
AJL22, Ben18, BR10, Boa13, BC20, BM15c, CP15, CIP17, DP17, Gil12, GT08, HMO11, JX13, KP12, Kra05, KML95, MM20b, RA21, RAN22, RP90, So99, WW12, Xu93, ZZZ16, dFK21. spectrums [Sin82b]. Sperner [Can80, Har84a]. Spherical [Gam80, Har84a]. spheres [–Dok81]. Spherical spin [–Dok81]. spinor [AF12, Ger82]. splines [DTSI15]. Split [KADM10, CC22, EÖ15, KL21b, Mar12]. split-quaternion [KL21b]. splitting [LW17, Pop20b, ZV19]. splittings [CP81, JM13, SPS15]. spread [AFTG19, FX12, NT94, SdF12]. spreads [The92b]. SQB} [JLL18]. SQB-tensors [JLL18]. Square [Bom02, CL74, JN80, MDW11, ZWZ10, AKS18, BL13, Din15b, Gre99, HL09, IK19, LLLW07, Nir11, dSP17, ST80, Slo16b, Slo18b, Sol80, Sta15a, XQ16b, ZWW10, dFJY22]. Square-zero [MDW11, ZWZ10, AKS18, dSP17, Slo16b, Slo18b, ZWW10]. squares [AS95, AA17, BTT20, Bur11, Caf13, DLQ18, Din98, Gra87, GK77, JS84, LW08, LW10, Pen15, Ric85, Ric87a, SMF95, Sin73, Sin76a, TH80, Vas86, Wan15, Wan17b, WX21, WL22, Wu09, XQZ13, YL11, YLW15, YZL17, ZLZ+22]. SR [JXL15]. SSOR [Neu84]. Stability [FD12, JOvdD85, KSU22, Lee94, Lev74, LS22, PT02, RRR93, TT18, BC83, BV16b, BKS12, BG21, Cai93, CCS16, CW17, Den14, DHKS16, Dra21a, ES98b, GPM98, Gor22, GX17a, HRT15, HS88, JvdD91, JvdD88, LLHS18, LIm18, Neu79]. stabilizable [Rai14a, Rai14b]. stabilizer [AF11b, JP86]. Stable [Fri84, GGL03, Rai14b, ES00, Jam88, Jam95, LC18b, ME18b, Sta84, Rai14a]. staircase [Hwa85]. Stand [De 82b]. Stand-alone [De 82b]. Standard [MS02, CW11b, HQ18, Rem82, YWO07]. Stanley [Har84a]. Star [BH16, Cve95, MRD15, Sta20, ACMS10, BS16, BH13, CT96, Cir15, Cir16, DSD83, DF90, GS06, HS83c, Kre16, Leg06, dNV19]. star-graded [dNV19]. star-shaped [CT96]. starlike [OST20, ZB13]. stars [BF05, IK20]. State [CFP21, BLX18, BF207, CF21, CG16, DPP17, Gue17, Gue19, HRT15, KMP+19, LL22, PB17, Pal21, TM19, TYC21, ZLZ20, ZQZ21]. state-feedbacks [HRT15]. state-wise [Gue17], states [Dn13, HWSH13, Man17, WCS+21, ZBW16]. Statistical [DHT94, Mai11, SLW21, TS05]. Steady [DPP17, ZQZ21]. steady-state [ZQZ21]. Stein [LZT18]. step [YD14, ZV19]. Stephens [Ano79b]. Stinespring [HJ19a, HJ19b]. Stochastic [Bar74, Gib92, Joh81a, Sin81a, SNC02, SJ02, ACh77, AS95, BWF83, Ben78, Bru85, BS08, BD13b, Bur95, CPM22, Cha83b, Cha84a, Cha88, CBQ19, CL05, DPP17, Esh17, Fei90b, For79a, FS86, For88, FM78, Gib76, Gol92, GL92, Har81a, Hwa85, Hwa91, Joh73, Joh74a, Joh81b, Kir09, KS76, KS82, LLL15, LZZ17, LM89, Mal91, MKS84a, MR07, Mer98b, Min75, Min82a, Min84, Mou04, MAM15, MA15c, ME18b, Pfu80, Pfi87, Sen83, Sin73, Sin76a, Sin76b, Sin77, Sin80, Sin82b, Sin84a, Wal75a, Wan76, Wea83, Weber, Zha14a, dF13]. stochastically [Lon90]. stopping [Zur01]. Stormer [HOT15]. straight [HT91b]. Straightening [Wil99, CW89, Cla82, Mal92]. Straus [MS82b]. Strict [Mum86c, CC98, Mum86a]. strictly
Striped \cite{MOTvdD03}. Strong \cite{DS13, FG02, HQ18, LL11, Liu15, MO91, QH17, Ska17, AHJ20, AHJ21, AV22, BS20, Cir17, Har84a, HM19, Mos21b, Pan13, SSG12, TKT19, XW22a, dB14a}. stronger \cite{RST22}. strongly \cite{ADRP14, BP89, BP90, BP92, BL93a, Cam14, DFK19, FG06, Gol06, Sta20, Tan18b, YW10, YBCW96}. structurable \cite{EKO14}. structural \cite{AAB15, BDV19, DPvW13, FSvW11, GPM98, HLZ11}. Structure \cite{Gur80, AMZ13, Boz97, DH20, FJ15, FJ09, GL85, Grz89, Heo16, HSM17, Kra05, KMS07, Kre16, LWZ15, LEH96, Ma22, MHH96, Mar12, Mer78c, Min74a, NP09, RJ04, Tom19, WZZ22, ZZ00}. structure-preserving \cite{HM18}. Structured \cite{MHM22, BR01, GC22, Mag83, MMRR16, MS15a, YW16}. structures \cite{AbvW16, Hon19, LGB17, Sin21, So90, WZH13a, WZH13b, Wil73, Wis12, vR11}. study \cite{CW89, Fri78, HRT15, Mis17, SRBB22, TJ16}. Sturm \cite{GMZ17}. style \cite{Wat85a}. Sub \cite{CK17, AA12, BZZ10, WM17}. sub-additivity \cite{AA12}. sub-block \cite{BZZ10}. Sub-defect \cite{CK17}. sub-long \cite{WM17}. subadditive \cite{Tik98}. sub-block \cite{Tik98}. sub-algebra \cite{NJP19, SZ19, YWO07}. Subalgebras \cite{Ake83, DR18, BZ19, BT07, CW11b, CX12, CW12, GLOT13, L909, LCL13, Liu16b, Liu9, MPG92, Ous15a, dSP11, WOW09, WY11, WL16a}. subclass \cite{RH11a, RH11b}. Subclasses \cite{Dra18b}. Subconstituents \cite{GWZ14, GWZ16, HZ21}. sub-definite \cite{DN18, ND13}. Subdirect \cite{GL20a, LLGL16, LMLL17}. subdiscriminants \cite{Dom14}. subdivision \cite{CMM17, CMM20, Che18, DP17, LPH17}. subdivision-coronas \cite{DP17}. subdivision-edge \cite{LPH17}. subdivision-vertex \cite{LPH17}. subdominant \cite{Kir09}. subgraphs \cite{AAT17, FG06, HW88, LS09, ZWL15}. subgroup \cite{MS16b, She21, Sur98, Wan16a}. subgroup-relation \cite{Wan16a}. Subgroups \cite{LLT93, Sch79, Chua84a, Da88, Den05, GL97, Hua90, Les93, Sun21}. subject \cite{Wan15, YqS16}. Submajorization \cite{Har17, BCK15}. Submatrices \cite{LP03, Ch02, De82a, FJM00, FT21, Fie81, GKY89, HS87, HK17, Joh84, Le87, MN96, NTU93, SP87, Th02, Vei82, Zab89, dO75}. submatrix \cite{DS09, ZHZ11}. sub-modules \cite{GS20a}. sub-multiplicative \cite{Kra05, Kra06}. sub-multiplicativity \cite{HJ87, J909, J92, JN00, M78a}. sub-multiplicivity \cite{BB15a}. Subnorms \cite{GGL03, GL01, Gol07}. Subpermanents \cite{Min75, HM95, MM90, Mal91, Vrb86}. sub-rings \cite{MP87b}. subsequences \cite{ACJ17}. subset \cite{Bal79a}. subsets \cite{MO13, Tom19}. Subspace \cite{Pat17, BEH19, Das18, DH20, GP06, LH22, LC18b, MW18, YW10}. sub-spaced \cite{RRR93}. Subspaces \cite{BR04, CD01, Gal08, haYsS99, BG86, CDJ13, CLW15, CLR81, CHK00, CS95, CF15, Dat16, Far94, GQ06, JS94, JP15b, KME012, LS22, MMRR09, Pat77, Pat84, Ras19, Ros81, ySpW14, Tam98, WG91b, XFG14, Zha13, dB16}. sub-stochastic \cite{CKP16, CK17, CCKL20, CCW20, Esh22, Gib92, Har84b}. sub-tends \cite{Bal80}. sub-tracticity \cite{Zha05}. sub-unity \cite{ZYL13}. sub-varieties \cite{GP15}. such \cite{Fan92}. Sufficient
[CHQ18, CC98, EOvdD09a, EOvdD09b, Gue19, LOO22, AW07, HB83, Pat79, Rou98, SQ15, Wan82, ZW17b]. **Sum**

[KR02, KL13, Ami80, Ash16, Ber17, BP09, Caf13, Cal97, Cal99, CS22, Dji16, Fow08, GR14, Gra87, Gro99, HP90b, KM85, KLO14, LPS08, LLHS18, LT13, LSX19, MW18, Ml90, MV91, Nor08, QK92, Si88a, Sin90, TH18, TCI13, Vas86, Vas87, XQZ13, Zel85, Zha05, ZMG20]. *sum-of-squares* 

[CF13, summation [IW95], summation [RK02, KL13, Ami80, Ash16, Ber17, BP09, Caf13, Cal97, Cal99, CS22, Dji16, Fow08, GR14, Gra87, Gro99, HP90b, KM85, KLO14, LPS08, LLHS18, LT13, LSX19, MW18, Ml90, MV91, Nor08, QK92, Si88a, Sin90, TH18, TCI13, Vas86, Vas87, XQZ13, Zel85, Zha05, ZMG20].

**Super**

[CFC10, CPT15, FD17, AA12, LOO22, MZ17, Mit10, Zha21].

**Super-additivity** [AA12]. **Super-biderivations** [CFC10, FD17].

**Superalgebra** [CFC10, CPT15, CM19, DH8, GMZ11]. **Superalgebras**

[LR13, dNV19, AH20, CPS22, CV94, FdSV16, GdSV16, BMN22, HLS18, Lee94, LCC19, LC22, PN22, WL16a, Wan16c, WL16b].

**Supercharacter** [Sun21]. **supercommuting** [HDJ97]. **superderivations**

[LC22, Wan16c].

**supereigenvectors** [IWW15].

**Superoperators** [JP15b]. **Superposition** [Ogu20].

**Supertropical** [IR18, IRR12, IK20]. **support** [Cao19, WZD16].

**supported** [HMO11]. **supports** [Hil18]. **surfaces** [FYIS13].

**Surjective** [Cos14].

**surjectivity** [BGLSSS20, ME18a]. **survey**

[Ano92g, BL92, CR90, Far93a, KS17b, Mer95]. **SVEP** [DC20].

**switch** [GKT97]. **switch-setting** [GKT97].

**Sylow** [Sun21].

**Sylvester**

[Bar80, Bed11, DH11, DM22a, GPM98, Haj18, HKT15, Hc21, HM20, HK17, KM17, Lei83, SL13, XWD21, XW22a, dFK21, dCD22].

**Sylvester-like** [KM17]. **Sylvester-transpose** [BS17d].

**Sylvester-type** [He21].

**Symbiosis** [NT91]. **Symbols** [GN02].

**Symmetric**

[BS17c, BBM15, CCL22, CA03, CD03, DS02b, GR81, JT04, JMP17, LR96, Pat81, Pie85, Zha04b, All14, Bal14, Bal18, BL97, BS16, BS17b, Ben90, Ben11, Ben74, BH74, BB75, BB15b, BLSV12, CKG21, CL85, CFSGL18, CL92, CSS21, Che91, CT109, CLNT17, CLN13, CK19, Coe96, CW93, DH11, Deu80, Dok75, DLR91, DCL19, Fan73, FJP15, Fit94, For87, FM22, GS06, Gib76, Gon17, GZW20, HHC12, HWW20, HJ20b, JKB17, Jr09, KL19, KKR12, KN81, LR13, Lei95b, Li87b, fLF15, LM95, LLO9, LI10a, LZ19b, Lim79a, Lim90a, Lim92b, Lim92c, Lim97, Lim10, LT14, Liu92, LTT11, LGB17, Loe01, LS21b, Lop118, MM05, MS85a, Mat92, Mat11, MQ21, Mer94, Min76, Mir18, MM15, MAM15, MA15c, Nwu74, Neu83, New74, Nom73, NTN93, OP13, Ore19, Pat83, Pat86].

**symmetric**

[Pat92, Pat08, Pat09, Pat17, Pen15, PM81, RR91, Re175, RW96, Rod97, SRBB22, SG09a, ST91, Sou83, Sra20, Sta14, Sta15b, SvW14, TXL21, TMH21, Til77, Tre87, Uhl79, Wag87, Wim85, Zha05, dCH21].
symmetric-indecomposable [BB15b]. symmetries [HWSH13]. Symmetrization [HO17]. symmetrize [Pat90]. symmetrized [BJ93, BD97, Gam18, Hol95, HT12, MC78, Mar78, MC83, MC89, Mer77, WG91a]. symmetrizers [CdS03, Uhl13]. Symmetry [DF95, HT92, HK16b, MS08, MR74, RC18, Wil81, Cha78, CL86a, CL86b, CL13, DP00, Der83, Fin92, HLS18, Hil76, HK13, Jin17, Jun88, KCBR87, Lim76a, Lim76b, Lim82, Lim90b, MC82, MC86, MM76, Mer78c, Mer79c, Pat95, Rob77b, yT86, WG91a, WG91b]. symmetry-antisymmetry [Pat95]. Symplectic [BB21, BB17c, Ter22, Chi22, DP09, Den05, Don91, FP17, LYS15, Mal92, MC19, MMRR09, New75, Sch21, SM19, Zha22]. synchronous [ZV19]. system [DH11, FHW16, HW14, He21, HM18, KO10, Lop18, Mil22, Ned98, NF19, Pop17, SPKC15, Sti87, WLZ22]. Systems [Gib89, JR93a, KS02, KTS3, Lev74, BC83, Cam83, CNW21, CW20, CJ12, CF15, CFP21, CIRW21, DPP17, DH86, Din00, Doo16, EKO14, FNW18, GR93c, GC22, Hai92a, Hai92b, HMAD13, HW15, HRT15, Hla17, HWL21, JS84, JR93b, JSY14, KP11, Kyr21, LF15, Lia80, LZ19b, Lop11a, MC17, MW19, MHHM22, NT91, Roh91a, ST86, Sin83, ST97b, Wer84, WW80, XLL15, Xia20, XJW17, YqS16, ZYC21]. syzygy [HJ20a].


Tensor [BB13, ILZJ19, LLV18, Pat92, Wil73, Wil99, Bal14, Bal18, Bar76, Boa13, Bre16, Byt20, CL85, CRK18, CRK21, CL83, CQW16, CKL16, Der16, Der18, DM18, Din15b, DH16, DCL19, FHL+14, Fog80, Fri82b, Gam18, GPW22, GWW15, Gil16, Hol95, HT12, HM20, HWSH13, dJFLIZ+21, Koi21, Kru06, LL16a, Lec94, LXQ21, Lei18, LN14, LZZ17, fLLL+17, LZ19a, Lim92a, Lim15, Liu18b, MC80, MS88, Mar11, McF79b, McF79a, Mer78b, MWC22, Neu74, Ng14, Nir11, Nor95, Nor08, PM22, Pat87, RSPT17, STME10, SWL13, Ven19b, WX19, WX21, WL22, Wes95, XJW17, XJS20, YLX20, YQ90, ZXF15].

Tensoring [Abd09]. Tensors [Lim01, MR74, BD97, BM17a, BS22b, Cha78, CL95, CBQW19, CK19, CCLN16, CPZ17, DP00, DM19, DM22b, DF95, Dok75, FDLB20, Gain76, GR10, GZH19, Hil76, HT92, HK13, HK16b, HQ14, HM19, JLL18, JZL20, Jin17, JKB17, Jun88, KSMB16, KJ13, LPZ13, LZ01, LL16b, LLL16, LZT18, Lim76a, Lim82, Lim90b, Lim92b, Lim97, Lim10, Liu18b, MS08, MC78, Mar78, MC82, MC83, MC86, MC89, Mat11, MM76, Mer77, Mer78c, Mer79c, MSS18, PBM20, Pat77, Pat90, Pat08, RS17, Rob77b, RC18, SL19a, SQH15, SQ15, SCK+20, Sta14, Sta15b, SLH16, SLH18, SL21, SF17, SMS15, SMS21,
SZWB16, SZBW16, SZZY18, Sun20, yT86, Wan82, WG91a, WG91b, WLX16, WSL17, WWW20, XQ16a, XHL20, ZL18, Zha19, dP74. **Term** [KS12, BSL01, CR22, Hua01, Kom10, YLX20]. **terms** [Bal14, CHQ18, HYY22, Kir00, LL15, MF20a, Pan13, zSqSZ16, TW19, WWZ20, Wan21, ZBW16]. **ternary** [BX11, BP09, KPS19, LLY22]. **Test** [BC85, LB19]. **th** [HL20, KW21, LT91, LLS10, SSG12, yT86, vBW95]. **Thanks** [Ano10, Ano11b]. **Their** [SK03, AdFK15, ACJ17, AKOZ20, BS15a, BS92, BS17b, BS17c, BS22a, Che92, CL14, CTY20, GKS01, GL16, GLS16, Hon93, HL18, IIm16, Iop19, KS15, KT19, KE82, KAE22, Kut19, Lei98, Man91, MP90, MMMR16, Mia93b, Moh16a, MA15c, NS85, Nor08, Pow88, QM21, Ric81, SLW21, SU77, SA21, SLUG04, Sin93, SL95, Sra20, TT12, TZ19b, Ter22, Tia11c, Tia18, TMovd93, Uhl99, Zha97, ZBW16, ZY08]. **Theorem** [BBM20, LMMR15, Mac09, Pop20a, Adk95, AM15, Aha76, Ari16, Ay95, BG99, BGK00, Bla77, BS22c, Bun91, Car19, Chi11, CPLH17, CC18, DFK19, DMV18, De 75, DP18, Dok17, DC20, Els78, FW13, Fie73, Gar75a, IGY99, GJR97, GS77, GSS83, GT11, GMW86, GPR84, GX17b, HL84, HJ19a, HJ19b, HJ20b, HS75, Hsu85, Hua09, IT16, JLL11, Kat75, Kov86, Koz17, Krä87, KLO19, Lf80, LRR87, LN80, Lim76b, MMMR07, Mar78, MS82b, Mel18, Mer98, Nag17, Nas75, New76a, Pas15, Paz84, PSS15, Pul75, Ras17, Rei83, Rem90, Roh91a, Roh91b, Roh04, Roii99, Rub20, SV14, San18, ST80, Sra77, Sin84b, Son86, Tam97, Tan18a, Tan20b, TZ17, Tan73a, TS05, Tos79, Wes75, Wes81b, YLL90, ZLS11, Zha15b, ZN18, dPN81, HWY17]. **Theorems** [Jun88, AEV12, AyT84, Bar07, BGLS07, BT22b, CMR20, CM84, EL09, FD12, GL85, GL16, Gut01, Hon91, Hsi78, 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]. **theories** [Sun21]. **theorists** [Sch77]. **Theory** [Min83, Min87, Ad91, jAS21, Atk91, BOvd95, BL80, CdS03, CNW21, CW81, CD85, FW73, Gar73, Gau76, Gors83, HCS19, Joh92b, JSY14, KN81, Kri87, MH22, MMMR16, Meij9, MN96, MP21, MA15c, PT10, Sch77, SQR15, Ste82, Tho90, WY21, WW76, Whi79, Wis12, XQ16a]. **There** [DKK+20, Stu92]. **Thin** [Mon20]. **third** [BB19a, GM87a, Guo07, PLH01]. **Thompson** [Ano97b, Day97, GPR84, Hia94, New97, NT94, Tan85]. **those** [Pat83, WW12, ZH22]. **Three** [CR22, GN02, MS82b, Mir81, Slo15a, Wil83, Abd09, AR15, AOTR11, BSU13, CLX22, Cro18, GGG2, Gue19, Hon09, HL22, Li84, LT12b, LZ15b, Mil22, MMMG15, dSP17, PGLM00, Sch79, TZZ19, TH80, Vas86, Wri93, XL11]. **three-state** [Gue19]. **Three-term** [CR22]. **Threshold** [HMK22, AAKS21, KADM10]. **tight** [DO19, Kim13]. **Time** [Uhl99, CW90, FK91, Gue19, HKT15, Kas85, ZZ21]. **times** [Che18, GLLM21, HL18, KN00, Zar01, ZL22]. **TN** [CJ20]. **Todd** [Sch77]. **Toeplitz** [ACI15, BG83, BdPN14, Boz98a, Boz98b, Boz99, CN08, CLNT17, Doo16, Elo18, FH89, GR91, GR93b, Gou13, GHL20b, Hii17, HM76, HM78,
Ikr15b, JTW17, JS91, JKKC22, KT21, KL15, KAE22, LL14a, Mar20, Mel12, Poo17, Sol06, Tii98, Tre93, Tre85, Tre86, Tre87, YLZ17, Zim89. **Toeplitz** [Ikr15b]. **Toeplitz-plus-Hankel** [Ikr15b]. **tomography** [Rau18]. **Top** [Coa99]. **topheavy** [BC80, FH73]. **topics** [McD92a]. **Topological** [MAH18, MAH21, BGLSSS20, EB17, Hau12, MVPS14, MRS10]. **topologically** [GS20a]. **toroidal** [Ye11]. **torsionfree** [BDvW16]. **Total** [Wan17b, XW22a, Caio19, CC98, LLW07, YC19, Zar01, ZWM17a]. **Totally** [CJ12, WHG17, AB19, BGGS17, CCU21, DJK08, Gar85]. **Tournament** [MP90, Dec95, KS93, Kir93]. **tournaments** [DLSS18]. **TP** [CJ20, JN14a]. **Trace** [BF15, Epk98b, Epk89a, GR14, Gur98, Kov77, Kru06, Lew96, MP13b, AW07, Astro7, Cho1b, Dra16, Ebe80, Gal79, Geh78, Kap77, KMMMS2, Mau78, MR19, Reg87b, Rem88, Rev81, Rob7b, Rom07, SQQ15, SW81, Tjk98, YSK15, ZY13, ZW81]. **trace-distance** [ZBW16]. **trace-form** [Mah78]. **traceability** [Lu22, YY20]. **traceable** [ZW17a]. **Traced** [RSPT17]. **traceless** [LT14]. **traces** [Cho18a, Fra13, LWXF15, Wan16d, XWF15, XZ18]. **tracial** [BZ01, Man17]. **tragedy** [Die79]. **trains** [HWSH13]. **transfer** [CF21, CG16, KMP90, LLZ22, PB17, Pal21, TM19, TYC21, ZLZ20]. **transference** [FP17]. **transform** [AL78, CM19, Elo18, JLL07, KKY22, Loe73, RS08b, ST08]. **transformation** [BG82, CS10, CRF7, Dia90, Ell93, GAGM18, Lim6a, LM10, Rob75, WWS19]. **Transformations** [Hla17, Loe74, Wes74, Wes95, AW83, Baa87, Ben78, BP12, Bot79, CL83, CL92, CL21, DK17, Gau76, Had83, Jam81, JLL88, Kov77, Kgm99, LL90, Lau81, LLWX17, Lim79a, Lim90b, MHH96, Mcf79a, MP73, Min77, Neu83, PLL20, Pat77, Pea84, SSZ93, Wat85b, Wat82, Wei93]. **Transforms** [And04, Far20, Lee98]. **Transition** [RW96, Tau74, CPZ17, LN14, Wai]. **transitive** [CL86b, LZ90, LMR00]. **translation** [Se81]. **translations** [PY82]. **transmission** [jAS21]. **transportation** [BS18, CCLL22, Har91]. **transpose** [BS17d, Cho18a, Gow80, WSC+21]. **transposed** [CR77, Rob75]. **Transposes** [Ric81, Sin93]. **transposition** [AF11a, AF11b, AF12]. **transversal** [Kas85, M186a]. **treatment** [Smi74]. **Tree** [AT18, LbH15, AFJK17, Bap97b, BGG99, BGG00, BCDF09, CD21, JD99, JS08, Mer89, NP09, NU94, Pat07, P90, Zm98]. **tree-patterned** [NU94]. **Trees** [MSZ04, Moh16b, AAS14, AD17, AEG19, AB21, BGG0, BN06, BLP08, Btw97, DW120, FLZ07, Fie90a, For97a, GHL10, GF10, HRW+21, JS09, JS16, KNS96, KN07, KN00, LP07, LT12a, LC14, LZ19c, LH13, MN04, Moe95, Mon20, NP13, OST20, SG06, TJ11, WBZ14, Y12, ZL22, ZB13]. **tri** [MC19]. **tri-covectors** [MC19]. **Triangle** [AAP82, Tho89, TW19, YW10]. **triangle-free** [TWF19]. **Triangles** [FS18a]. **Triangular** [BKL02, Cho03a, Gal03, Iov15, MP19, Ori22, BCH16, BT90, Ben05, Ben07, Ben16, BGV11, BH15a, BDvW16, Bou13a, BSZ13, CdM15, CW16, CQ22, Cho10, CKT20, CL01, CC18, CPI8, DTS14, Do07, DC20, DW12b, DH22,
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HX21, Ikr15b, KC16, Kim91, LT89a, LT89b, LT90c, Li91, LT92c, LM93,
LPS08, RS07, RAI87, Sed11, SC22, Tho74, TM19, Xia20, Zha22, dB10, ZT12],
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CIP18, Dol07, DC20, DH20, Fos05a, HCl4, HLZ18, JKB17, JTU00, Kob06,
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[AEdF13a, AEdF13b, ACMR17, DdF15, HZ03, JST18, KNS96, LT12a, LZZ17, LDL17, WH11, WW20, WDJ10, ZL19, Zhu19]. via
[BM17a, BS22b, BB19c, DMV18, FDLB20, FS18b, Gau76, HJ20a, HRT15, Ikr15b, JPM17, Joh11, KNS96, Kui22, LV18, Lékk19, NS18, PPSAMA16, PM22, RW81, Sta15a, SZWB16, SZBW16, Tan81, Uhl13, XQ16a]. Viennet [Foa79].

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**Afshari:2021:NAC**


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**Akkurt:2015:JHS**


**Ahmadi-Asl:2017:EIA**


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Anderson:1978:GRI


Arambasic:2017:FOF


Arambasic:2019:FSF


Angelini:2018:RIV


Abdulrahim:2009:TTI


Abdalla:2020:SMF


Alhevaz:2021:BTC

Ammar:2016:NEP


Aboutalebi:2020:INR


Anh:2016:ISR


Agrawala:1978:EIR


Alnajjar:2013:BTL


Alvarez:2019:CDH


An:2021:DDM

Cai:2017:QWM


Achilles:1977:PDS


Abdikalykov:2015:UCA


Aryal:2017:HMS


Andrade:2017:BGA


Antezana:2010:NSO


Adashev:2021:SLA

Andrade:2017:CPV


Andelic:2021:SDC


Alzer:2015:YTI


Adhikari:2013:VSL


Akbari:2019:ESC


Al-Dolat:2022:NNR


Adkins:1995:FPI

Achour:2014:FSC


Adukov:2015:RTF


Alizadeh:2010:EUI


Abd-Elmageed:2020:SRF


Andelic:2013:NAMa


Andelic:2013:NAMb


Ashrafi:2019:LCZ


Abreu:2017:CSC


Alvarez:2013:CFL


Afriat:1973:RCF


Akbari:2019:IUP


Abrams:2000:RPM


Arens:1996:WNM


Ambrozic:2015:IPC


2016. CODEN LNMLAZ. ISSN 0308-1087 (print), 1563-5139 (electronic).


Anderson:1985:EDP


Aitken:2019:NDH


Alahmadi:2014:DSM


Alahmadi:2018:WNM


Ammar:2022:PSR


Amiad:1978:BR


Ando:1994:PMD


92
Ayupov:2021:LDG


Avraham:1978:ILT


Ando:1994:I


Ali:2021:CSR


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<th>Details</th>
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333


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426


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Reams:1996:INM


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Richman:1978:SGL


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524
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Romo:2019:DIF


Romo:2020:CND


Romo:2021:DMP


Roopaei:2020:FCH


Rousseau:1998:SCN


Rowlinson:1995:I


Ruzieh:1990:DSP


Rhoades:2010:KLI


Robeva:2017:SVO


Ramirez:2018:GSM


Rout:2021:SNR


Rueda:2017:TTN


Ribeiro:2022:CCS


Radjavi:2009:SSO

Rublein:1989:CCJ


Rubei:2020:GRT


Ruch:1989:CCB


Rump:1997:ASB


Rusek:2016:LTQ


Remmel:1984:BPG


Remmel:1996:TMK


Shebrawi:2010:NIA

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Shamsabadi:2021:CFT

Sababheh:2019:HTN

Sahoo:2021:CAS

Sain:2021:SNA
Salazar:1979:AMM  

Salem:2012:GBM  

Salem:2014:BGH  

Samelson:1978:NLH  

Sano:2014:NDM  

Sandovici:2018:NTL  

Sarma:2020:MHQ  
Sato:2011:BZF


Singh:2001:IHP


Seidenberg:1975:BR


Song:2003:LOP


Song:2016:PCP


Shi:2020:SMW


Sang:2021:NEB


Schwarz:1992:BCD

Schellwat:1995:ICG

Schmale:2015:LE

Stanimirovic:2020:OIT

Sun:2020:NLE

Sciriha:2012:RSG

Sun:2010:NSM

538


Sawano:2021:SGD

Stegeman:2017:BRR

Shen:1996:SEI

Sciriha:2006:MCT

Shao:2009:ECL

Shao:2009:ETC

Shafiei:2018:NRP

540


Shang:2015:DEI


Shao:2018:NIC


Shao:2020:GRY


Song:2002:MPF


Shchegolev:2021:BPM


Schulte-herbruggen:2008:SBN


Shemesh:1977:TO

Shitov:2015:NRM


Shitov:2015:TCS


Shitov:2016:MMT


Shirokov:2018:CLA


Shkarin:2012:HTO


Shreve:1990:QFC


Shiu:2017:SLS


Silva:1995:CPP


Silva:1998:IPM


Silva:1999:EMP


Simons:1983:MRP


Simic:1995:SNG


Sinkhorn:1973:DWS


Sinkhorn:1976:DSM

Sinkhorn:1976:MWC


Sinkhorn:1977:DSM


Sinkhorn:1980:CQM


Sinkhorn:1981:CME


Sinkhorn:1981:NWV


Sinkhorn:1982:LAP


Sinkhorn:1982:SPR

Singer:1983:APM


Sinkhorn:1984:GSA


Sinkhorn:1984:PRV


Sing:1990:STM


Sinkhorn:1993:CHF


Singh:2021:BST


Sivakumar:2006:GII


547
Sivakumar:2006:MPI


Song:2002:MPT


Sjogren:1993:CBR


Song:2003:CRT


Suyama:2015:BEB


Suyama:2015:NAB


Skalna:2017:SRP


Slowik:2015:ERI


Slowik:2016:CMT


Slowik:2016:SSZ


Slowik:2017:EIT


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So:1990:FSS


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Solow:1980:SCI

Solues:1997:NP

Solues:2000:EMB

Solak:2006:RPN

Soleymani:2014:FRA

Song:2014:CSS
Soules:1983:CSN


Sourour:1986:FTM


Sourour:1992:NFM


Soules:2003:NPU


Simoes-Pereira:1987:NCS


Spiegel:1976:PGS


Spitkovsky:2000:NRP


Song:2015:NSC


Shao:2015:SNT


Santana:1999:GRM


Selvan:2017:ITO


Sinha:2022:ESR


Sra:2020:NCC


Sain:2022:SSP

Sinha:2019:SAP

Srivongsa:2020:OGM

Sahoo:2021:SEN

Shao:2007:CAI

Saunders:1979:CGO

Silva:1996:PNI

Shahryari:1998:PC
Simic:2007:PRU


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Sun:2016:MPI


Szwarc:2018:CWA


Sun:2016:CSR


Sun:2018:SIH


Taghavi:2012:AMA


Talebi:2017:ONF


Taussky:1973:RP

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Thompson:1989:MVT

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Thompson:1992:D

Thompson:1992:ESH

Thomsen:1992:HBF

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Trapp:1984:HSM


Tran:1989:CPS


Tran:1990:CCP


Taghavi:2016:NLJ


Trench:1985:EPT


Trench:1986:EPT

Trench:1987:CPS


Tian:2005:CST


Tavakolipour:2019:NRT


Taghavi:2021:CMP


Tsing:1981:SGN


Tsin:1983:DMW


Tsay:1982:BPF


Turcotte:2002:SRA


Turnsek:2016:CTS


Tura:2018:CEC


Tian:2017:GAG


Tian:2019:UBE


Tian:2016:CSP


Tang:2013:DDU

Tang:2008:NIP


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Vecchio:2007:BIN


vanWyk:2019:LSM


Verma:2021:ISA


Wadsworth:1985:DCT


Wadsworth:1990:AGT


Wagner:1987:CSB


Wallis:1973:CHM


Wall:1975:DSM

Wallis:1975:CWT


Wales:1979:CBF


Wall:1979:RFP


Wallis:1986:EMH


Walker:2011:BSL


Wang:1976:DSD


Wang:1977:CMM

<table>
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<th>Reference</th>
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Weaver:1983:EEC


Webster:1983:HMD


Weintraub:1993:NLT


Wei:1998:EDI


Wenchang:2006:FBF


Werner:1984:ECR


Werner:1986:GIW

Werner:1987:SRR


Werner:1994:CMS


Westwick:1974:LTG


Westwick:1975:TNR


Westwick:1980:MLR


Westwick:1981:RTRb


Westwick:1981:RTRA

Westwick:1987:SMF


Westwick:1990:ECR


Westwick:1995:TTS


Westwick:1996:DUF


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Zelmanowitz:1978:BR


Zhang:1997:WLA


Zhan:2000:SRP


Zhan:2001:SOO


Zhang:2001:EWI


Zhang:2004:MIS


Zhang:2004:AMP


Zhang:2004:GCH


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