A Complete Bibliography of Publications in Linear Algebra and its Applications: 2015–2019

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Title word cross-reference

(0, 1) [BD19, CR18a, CLT15, CMQV16, GT18, NS15a, NA17, ZM16, dCFF17],
(2, 1, 0) [WG15]. (75, 32, 10, 16) [AM18].
(76, 30, 8, 14) [BPR17]. (A, m) [BSZ18], (b, c) [Rak17]. (d, k, δ) [FJ19]. (δ, c) [Zha18b].
(e, f) [KC16]. (I − A) [CC18]. (m, m − 1, 0) [HZ17]. (m, q) [BMN16]. (P^1)^n [LM16a].
(N − 4) [HAM16]. (p, n − p) [PR18a]. (p, r) [AdF19, EJ18]. (v, b, r, k, λ) = (10, 15, 6, 4, 2) [Mic16]. * [DI16]. −(1 + √17)/2 [LM16b],
−1 [BK17a], {−1, 0, 1} [JMP18],
−1 ≥ σ(S−I S) [GMP16c]. −2 [CRS15]. −3 [KLY18]. 0 [BBH16, HL19b, Shi18b], {0, 1} [XLQC16, XCQ18]. 0 < p ≤ 1 [LC19]. 1
BBH16, BR17, Hir18, HL19b, KY18, KLW16, MHL15, OP16a, PCI15, Shi18b], 14
[Je18]. 2 [AK15, AK16a, AA17, BLdS16, BC15a, BH16a, CP16a, CG19b, CW15a, CL18, CJ17d, DFK^+15, DHS18, EV15,
HPSS19, Hoo19, KLP15, KY15, KY18, KIS18, LY16, LWX17, MMS16, Mic16, ME15, NP15a, QK18, QKP16, Sam17,
STW19, YL15b, YLT16, ZXW19, ZGW16]. 2(n − 1)/3 [LS15a]. 2n [dlCMP17a, dlCdR17].
2 × 2 [GHK17, GLRT18, KLP18, KM16,
She17, Uhl19, UG19]. 2 × 2 × 3 [LS15b].
2 × N [Sar19]. 3
[BK17a, BKL16, CLZ16a, DFK^+15, KN18, Kal16, LEE15c, LWX17, Sam17]. 3 × 3
[BBDH18, HK18b]. 4
[BDV+15, KH17, LWX17, SS17a]. 5
[AMR^+16, BDV+15, JMP17, Jør15]. 5 × 5
[LS17b, SW18a]. 7 × 7 [HLPS19]. 9 [Kar16].
Z₄ [Mor16b]. \( |V(G)| - 2m + 2c(G) \) [zSqST15].

* [DD16b]. *-rings [DD16b].

-adic [BSS17, EG15]. -algebra [CILL16].

-algebras

[BCP16, CP16a, EP18a, LCLW18, Mol18b].


cospectral [ZLS17]. -cut [Nik16b, vDS16].

cyclic [MP16b]. -density [BDG15].

derivations [NP15a]. -designs [BH16a].

digraphs [FJ19]. -dimensional [BC15a, FMM16, KLP15, HAM16].

divergence [Vir16]. -eigenpair [LV15].

eigenvalue

[FulIK16, HWXC18, Lin15a, SWB19, ZG18].

eigenvalues [CLM19b, HQX15, YQS16].


-integral [PS19a]. -inverses [KC16, PCI15].

-isometries [BMN16, BBMP19, CGL16, MMS16, BSZ18].

-isomorphisms [STW19]. -join [CDR18].

-Laplacians [NS17, Nag19]. -less [FZwCW16]. -linear [ANAPS17, RT16, BGCMASS19]. -Local [AKR15, AK16a, AA17, CW15a, CP16a, NP15a]. -majorization [NA15].

-majorizing [Sab19]. -matrices [AMG19, BD19, CR18a, GT18, NA17, wXZ19, ZM16, dCFF17, BA15a, CS19a, DN16, GL16, JS16, KLS19a, Kus16, MY16, OP19b, SH15b, S18, VB18, wXL14, ZLL18]. -matrix


-modules [MEMM17, XF17, Yan18].

-negative [Wol18]. -norm [Hoo19, Nik17a, OP16a]. -norms [CL15b].

nuclear [BM17c]. -numerical [CJ17a, CCCNT19, Zan19, Cha15].

-Onsager [Ter17b]. -optimal [Sma15].

-order [DV18]. -orthogonality [KZ17].


-problem [CG19b]. -Racah [NT17, Ter17a].

-rank [WYLW17]. -ranks [WLWZ19]. -rays [Dah15a]. -Regular [CLZ16a, MM17c].

-resolvable [Mic16]. -rings [BBEE18].

-Riordan [BT17b, CJ15]. -scalar [GX19].

-scalings [Kus15]. -Schatten [CM16].

-Schur [FKM17a, FKM17b]. -SDD [WLL19]. -semiclassical [GGMPC15].


-special [Ern18]. -spectra [JMP17, LXS18, NPS17]. -spectral


-symmetric [BFY18]. -symmetries [dICdR17]. -tensors [LQL15, DLQ18, HWXC18, KSMB15, LL15a, OP19a, SWB19, ZSWB16].


-type [LJL16]. -uniform [YYQ19].

-unitaly [CCIT18]. -universal [Bou16a].

-variable [KY15, KY18, LY16]. -vertex
Niv15, Olk15, Pas19, PS18b, RLP19, SGH16, SB15, Ser15, Ter17b, UG18, Wan19, dlP18.

**Algebraic** [BJ15, CCGV +19, EHK16, Oi19, PS19e, Sch17, AAMM18, Alf18b, BD15a, BBEE15, BB16a, BGCMPR15, BGdCCMSS17, BS15, Ser15, Ter17b, UG18, Wan19, dlP18].

**Algebraically** [KQZ16, DB19a, LS15b].

**Algebras** [CRVSS19, AM15a, AEV16, ALH15, AEV15, AKR15, AK16a, AK16b, BZ16a, BKRE18, BY19, Bal17a, BES16, BGV17, BC15a, BdlCL17, CS15, BCS16, BCS15, BCS16, BLdSV19, BP19b, BDF18, BBS16b, Bre17, BS19c, BCP16, Bur18, CP16a, CMV16, CMV17, CMV18, CLOK13, CPS17, Cha15, CW15a, CL15a, CR18b, CD17a, CMD17, CME18, Co19a, Co19b, CDH18, DIR16, Der19, DKNS16, DOR16, EL16, EP18a, EF17, EF19, FKPS18, GGH15, Gol16, Gon19, LMO16, LL19, LZ16b, LZ16c, LZ16c, LZ16e, LZ15b, LZ15a, M116, M117, Mol18b, Mon19, MX16, NINS16, OW17, Oi19, Pel17, PR19, PR18b, Ral19, RE16, SBB15, SY15, Shi16a, TW16, Tom15, Wan16c, WZ17b, WFS19, Xur17a, ZK17].

**algebras** [Zha17, Zus17a, Zus17b, vWZ17].

**algorithm** [AAG +18, Ais16a, Ais18b, BB17a, BDL16a, CML16a, CM16, DD17c, Fay18, Fis17, FM17a, FM17b, GCC16, KWD16, LLL17, LC19, Miz16, Pan15b, RKT15, SZ17, YIN19, CA18].

**Algorithms** [Ao16a, BMVW16, KLS17, Per18, SdJJ +16].

**Aliasing** [BMS15].

**ALIF** [CGSC19].

**allow** [LP15].

**Almost** [SW16, VQ19, CS15b, Pol19, WHG17].

**almost-equidistant** [Pol19].

**Almost-invariant** [SW16].

**Almost-nonsingular** [VQ19].

**along** [Nag19].

**alternate** [GL15a, NAS18].

**Alternating** [BD19, FGH +15, HS16, Kob17, Pan15b, dSP16a, dSP16d, dSP16e, Ter18].

**alternative** [Koz16].

**Aluthge** [CM17, EP18b].

**amenable** [NINS16].

**American** [Zha15a].

**among** [BS18b].

**analog** [MM19b, Nie19a].

**analogs** [HT18a].

**analogue** [GKR16].

**Analogues** [MP17, AJ19, LN17].

**Analysis** [And16a, BMVW16, Tsa16b, AL16, BZ16b, CL19, CN19a, CA18, CS19, GZ19, GZ19, GCC16, GCQX15, JLT17, Kir15, KIS18, KLS17, MM16a, MP17, Mz16, OZ15b, SN16, See18, SLY17, Bar15, Br16a].

**analytic** [JLM18].

**analytical** [GS18].

**Analyticity** [DvSW16].

**ancestral** [ADW19].

**Ando** [Ric19, Wad18].

**angle** [LMX19].

**Angles** [CPZ16a].

**angular** [CS15a].

**anisotropic** [AL16].

**annihilating** [NN19b].

**annihilator** [HAM16].

**anomaly** [Zin15].

**antisat** [FS18a].

**antecedents** [Bar19].

**anti** [AyLPS18, AT15, BF19a, DDC +16, FT18, GJK18, MV16, YW16].

**anti-banded** [BF19a].

**anti-circulant** [AT15].

**anti-community** [FT18].

**anti-negative** [GJK18].

**anti-reflective** [DDSC +16].

**anti-regular** [AyLPS18].

**anti-triangular** [MV16, YW16].

**anticommuting** [Hru16].

**antiperiodic** [DO16].

**antipodal** [Fil18].

**Anzahl** [GL15b, GL15a].

**Apartments** [Pan17, Pan16b].

**Appl** [ASMN17a, Ali20, Ano16a, AG20, Bal18, BF17b, BKSP23, Duk15, EKSV18, FJS21, GP18, GWL +18, Hou20, KAPS20, Kis15, KHI16a, LMO16, LT16a, LLS17a, LZ15a, PW20, RB19, SM18, WZZ19, Yua15, ZL15a, dCDFK18].

**Application** [AMH11, Ab1i19, AO18, ACM17, BM16a, BFMK18, CRX15, DGGP18, DHW18, FBH19, FL15, GJK15, KV19, PHW16, RGPH16, Ste15, YYSX19, BTN +18].

**Applications** [APR +17, Ano16a, BMVW16, DH15, He16a, PCI15, AAG +18, AM16a, ANP16, AL19a, BBM19, BKNS17, BJKR17, BCE19].
Barabanov [GMW18]. Bartholdi [TH16a].
barycenter [HL17a, HL18, KLL16].
barycentric [EG19]. base
[BS16e, CDR+19]. base-orderability
[BS16e]. based
[Ais18a, AM16b, BL15, BB18, BKL16, CIY15, DGM+18, DV19a, FT18, GCC18, MHA18, RD15, RMKJ18, RBKA16, RW17, Som17, SZW16, VT18, WG15, WL16, XXZ16, wXL14, wXZ19, ZD15, ZZR15].
Bases [Shi15, BDP+18b, DA19b, DA19c, DV18, DPV19, DV19b, FS17a, HHR16, LS17a, MP16a, MB15, PM18, RAI19, Szá16, DDMV16, DDV16, WZW19, War17].
Basic [Shi15, BDP+18b, DA19b, DA19c, VD18, DPV19, DV19b, FS17a, HHR16, LS17a, MP16a, MB15, PM18, RAI19, Szá16, DDMV16, DDV16, WZW19, War17].

Bases [Shi15, BDP+18b, DA19b, DA19c, VD18, DPV19, DV19b, FS17a, HHR16, LS17a, MP16a, MB15, PM18, RAI19, Szá16, DDMV16, DDV16, WZW19, War17].
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Basic [Shi15, BDP+18b, DA19b, DA19c, VD18, DPV19, DV19b, FS17a, HHR16, LS17a, MP16a, MB15, PM18, RAI19, Szá16, DDMV16, DDV16, WZW19, War17].

Bases [Shi15, BDP+18b, DA19b, DA19c, VD18, DPV19, DV19b, FS17a, HHR16, LS17a, MP16a, MB15, PM18, RAI19, Szá16, DDMV16, DDV16, WZW19, War17].
Basic [Shi15, BDP+18b, DA19b, DA19c, VD18, DPV19, DV19b, FS17a, HHR16, LS17a, MP16a, MB15, PM18, RAI19, Szá16, DDMV16, DDV16, WZW19, War17].

Bases [Shi15, BDP+18b, DA19b, DA19c, VD18, DPV19, DV19b, FS17a, HHR16, LS17a, MP16a, MB15, PM18, RAI19, Szá16, DDMV16, DDV16, WZW19, War17].
Basic [Shi15, BDP+18b, DA19b, DA19c, VD18, DPV19, DV19b, FS17a, HHR16, LS17a, MP16a, MB15, PM18, RAI19, Szá16, DDMV16, DDV16, WZW19, War17].

Bases [Shi15, BDP+18b, DA19b, DA19c, VD18, DPV19, DV19b, FS17a, HHR16, LS17a, MP16a, MB15, PM18, RAI19, Szá16, DDMV16, DDV16, WZW19, War17].
Basic [Shi15, BDP+18b, DA19b, DA19c, VD18, DPV19, DV19b, FS17a, HHR16, LS17a, MP16a, MB15, PM18, RAI19, Szá16, DDMV16, DDV16, WZW19, War17].

Bases [Shi15, BDP+18b, DA19b, DA19c, VD18, DPV19, DV19b, FS17a, HHR16, LS17a, MP16a, MB15, PM18, RAI19, Szá16, DDMV16, DDV16, WZW19, War17].
Basic [Shi15, BDP+18b, DA19b, DA19c, VD18, DPV19, DV19b, FS17a, HHR16, LS17a, MP16a, MB15, PM18, RAI19, Szá16, DDMV16, DDV16, WZW19, War17].
blow [LM16a]. blow-up [LM16a]. Board [Ano18-27, Ano18-28, Ano18-29, Ano18z, Ano15a, Ano15b, Ano15c, Ano15d, Ano15e, Ano15f, Ano15g, Ano15h, Ano15i, Ano15j, Ano15k, Ano15l, Ano15m, Ano15n, Ano15o, Ano15p, Ano15q, Ano15r, Ano15s, Ano15t, Ano15u, Ano15v, Ano16b, Ano16c, Ano16d, Ano16e, Ano16f, Ano16g, Ano16h, Ano16i, Ano16j, Ano16k, Ano16n, Ano16o, Ano16p, Ano16q, Ano16r, Ano16s, Ano16t, Ano16u, Ano16v, Ano16w, Ano16x, Ano16y, Ano17a, Ano17b, Ano17c, Ano17d, Ano17e, Ano17f, Ano17g, Ano17h, Ano17i, Ano17j, Ano17k, Ano17l, Ano17m, Ano17n, Ano17o, Ano17p, Ano17q, Ano17r, Ano17s, Ano17t, Ano17u, Ano17v, Ano17w, Ano18a, Ano18-30, Ano18-31, Ano18-32, Ano18-33, Ano18-34, Ano18-35, Ano18-36, Ano18-37, Ano18-38, Ano18-39, Ano18-40, Ano18-41, Ano18-42]. Board [Ano18-43, Ano18b, Ano18c, Ano18d, Ano18e, Ano18f, Ano18g, Ano18h, Ano18i, Ano18j, Ano18k, Ano18l, Ano18m, Ano18n, Ano18o, Ano18p, Ano18q, Ano18r, Ano18s, Ano18t, Ano18u, Ano18v, Ano18w, Ano18x, Ano18y, Ano19a, Ano19b, Ano19c, Ano19d, Ano19e, Ano19f, Ano19g, Ano19h, Ano19i, Ano19j, Ano19k, Ano19l, Ano19m, Ano19n, Ano19o, Ano19p, Ano19q, Ano19r, Ano19s, Ano19t, Ano19u, Ano19v, Ano19w, Ano19x, Ano19y, Ano19z]. 

bound [ARR18, AL15, ARS17, BL18a, Bal15c, Ber18, BH16a, CLF18, GRS15, HW15b, IL17a, LCWZ19, LwW16, Mol18a, Ob19b, Vec16, WF19, Xu17b, ZWS18]. boundaries [AGV17, BS18b]. Boundary [CN19b, BL15, CN15, DDSC+16, EHK16, EH18, GM16a, HJW19, Piv19, YLB15]. 

Bounded [Pan19a, AB19, CM19, DDL17, DD17b, GSP16, LT12, LT16a, LZ16c, PSG16, PSM18, dSP16a, dSP16c, dSP16d, Pep17, RMS16]. 

Bounding [Sta19, AO18]. Bounds [ALMZ+19, DiISJdFDV15, FW17, Gil16, HHL19, HMNP15, Lia17, LL18a, Mel16a, OP16a, Pep17, Run19, VV18, WM17a, dPJG18, ACT16, AR16, ACRR15, AGR16, AdFRR18, ADLR19, AP15a, BG15, BaHOS15, CR19b, bCR18, CLE15, CL17b, CL18, CJ16c, CJ16d, DHZ19, DV19a, DR18, DM18, Drn19, EA17, GM17, IGW17, Ken16, Lan15, LLV15, LWY16, LTM16, Lot15, MR17b, MS17b, MHS15, OVW18, Rod19, SZ23, SK17b, Sku17, TLL15, TWM16, WZL17, WLL19, WZW19, WWC18, YZL15, vDS16, ELN18]. 

Braess [HK19b]. Brauer [BJLD17, DLB18, LL16a]. Brauer-type [BJLD17, DLB18, LL16a]. 

Bregman [MPV16]. bridge [CDM19]. bridging [LS17a]. Brill [Gua18]. Brouwer [GP18, Che18b, Che19a, GAP16, HT17]. 


Brunn [Liu16a]. bundles [DFK+15, EM16, Gall17]. Bures [Mol18b]. 

Butson [EC19]. butterfly [LZSD17, LZSD18]. butterfly-like [LZSD17, LZSD18]. 


CAM [Bru16a]. Cambridge [Bar15]. Can
[dCdSA15, Nom16]. CANDECOMP
[KL18b]. CANDECOMP/PARAFAC
[KL18b]. Canonical
[BBDH18, DD17c, LS15b, AEKP16, BTW16,
BGSS18, CXLF16, CNX17, CW17, DFK+15,
FdC15, GLAdS19, MN19b, Rad17].
Carathéodory [BFMK18, IL17a].
cardinality [CRVSS19, MMR17, Yor17].
Carlen [Bek16].
Carleson [DPS19].
Carlitz [KT19].
Carlo [WC15].
Cartan [HL17a, HL18, KLL16, LL19, MM19a, PR19,
WZ17b]. Cartesian [BK19, KMY15].
case [ACS19, Bar17a, BDK+17a, DV19b, EHHL17,
IHS16, Mat15a, Pan15b, ZHC16, dFRS16].
cases [MP17].
Catalan [HS17, YDHX18].
category [MVPST19].
Cauchon [AAG+18].
Cauchy [HL17a, HL18, KLL16, LL19, MM19a, PR19,
WZ17b]. Cauchy-like [Mel16b].
causal [FKD15].
Cayley [AT15, BBM19, BBS16b, CFH19, KM15b,
KLW15, LZ15d, RB16, SLY17, TFC19].
Cayley-type [RB16]. cell [KT15]. cells
[GMLT19]. Central
[Yin18, BDDO16, EF17, EF19, Lék16].
centrality [AM16b, BFK19, HKS19].
centralizer [AGP+17]. centralizers
[Han19a, dCDFK17, dDFK18].
centralizing [Wan16c]. centrally [Mig16].
Centrosymmetric [JRS19, Bur15]. certain
[AKYD16, Ege16, EEV17, FKP18, Hia16a,
Joe16, JMP17, Kol15, KLW18, Lin17a,
Liu18, Lot15, Mol19, NP15c, PP18, Sch17,
She17, Tab16, VHB18, vWZ17]. certificate
[CJ17c, Dic19]. Cesàro [AB19]. chain
[AAS16, BK17c, Cho19, WC15]. chains
[BLPT15, BCF+18, Hun16, Hun18a,
Hun18b, JLT17, LZ15a, Mas17, MP16b,
NP15b, SY16a, Sku17, Ter18, VB18, Vas15].
Change [DFK+15, JST19, VSV18].
changing [GM15, SV17]. channels
[FL16, HJ19, LPPZ19, Lev18]. chaos
[BCM MASS15]. character [Che15b].
Characteristic
[AW15a, BLdS16, Ben18, BCS16, BBFF17,
BCF+16, CCD19, CK15b, EV15, FOvdD16,
FMR18, HY18, HZ19, HZ17, KMS17b,
LL18b, MW15, MMR16, MMR17, MMR18,
Niv15, Shi16f, WW18, W19W19, ZGW16].
characteristics [AKPS19, JKKL15,
KAPS20, Koz16, MNTX16].
Characterization
[BJKR17, DP16, GLZ16a, GSSvdD16,
HT18b, JT18b, Kim15b, LD16a, MWT16a,
QH15, RW17, Wój19, ZWX19, Abi19,
CRRY15, CLR+18, DGCC16, DP18, DP15b,
DP17, IFwW16, GGMP15, GH16a, GX17,
HvD18, HJW19, Hoo15, KY18, LzSD17,
LzSD18, LWCL19, MHL15, MM16b, NS18,
PP15, SW18a, zSqtST15, TSH16, WM17b,
XvdBvdLS15, YCL17].
Characterizations
[HM17a, Mol19, RS17a, AyLPS18, ABDN18,
BP15, DDF18, He15, He18, LL15b, LW18C,
SBB15, Sol19, UYY17, WZ15, ZSWB16].
Characterizing
[BDMB19, CJ16c, FM19, Lz15b, HK19a].
characters [AR15a]. Charles [Bar15].
Chebyshev [Guo19, KMM17, Cm15].
Chevalley [MRR18]. Chief
[Ano18-44, Bru15, Bru16b, Bru17]. Chip
[BMZB18]. Chip-firing [BMZB18]. Choi
[GKR16]. Cholesky [LWY16].
Cholesky-like [LWY16]. Christoffel
[AM15b]. Chromatic [KM19, AL15,
FCL+16, KN15, Ton15, vDS16]. circle
[Cas19, IR19, MS15a]. circles [Rum19].
circuits [MT15]. circulant
[AT15, AMNR18, H11b, Joe16, KK17,
Lee19a, NW19, Nie19c, PS15, PS18b,
QWC15, RR18b, San15, San18, SB18, TG19].
circulants [DM16b, Sbu17]. class
[ASMN17a, ASMN17b, AMR18, AMG19,
BG15, BPP16, BR16a, BHP17, CX17,
Chu19, CM16, FPGP17, Hoo15, HSTW17,
JLM18, uIFK15, KY18, LD18, MI17,
Min17, Mir18, Nob16, OK18, Ris16,
RBKA16, San17, XXZ16, ZD15, Zhu19].
classes [AG15a, CHJM18, DGS18, EC19,
Egg15, ETF18, Far19, FM19, Gre18,
GJLS16, LCF19, MR17a, Mar15a, Pan19b, Pel17, Rob19, Sha16, SS18, VLG15, Ye17, ZM16, dSRST17. \textit{Classical}\cite{HLG15, OVW18, Ota15, Saw16}. Classification\cite{AMC18, BKRE18, BCS15, CMV17, CLOK13, DdFR16, EEV17, HA16, LMO16, LZ16c, MSSZ17, RE16, SWZ18, GSZ15, GSZ16, Gas19, HAM16, Sim18, YdB19, dFRS16, dFFRS17}. Classifying\cite{BP19b, FKPS18}. Clean\cite{BM16b}. Clifford\cite{CK15a}. Clique\cite{FHJT19, HFS15, Yus17}. Clique-width\cite{FHJT19}. Close\cite{BCF+18, BaHOS15}. Closed\cite{DKSV19, AYK17, Bie15, LS15b, LMX19, XS17}. Closest\cite{KT15}. Cluster\cite{TLL15}. Cluster-robust\cite{TLL15}. Clustering\cite{BCF+18, EB17, Bai18, Est16}. Clusters\cite{CR17b}. Clutter\cite{MFdM15}. CMV\cite{MS15a}. Co\cite{Bru16a, Tsa16b, Alf18b}. Co-rank\cite{Alf18b}. Coadjoint\cite{BC15a}. Coarse\cite{KN16}. Cocycle\cite{Ong18}. Code\cite{LA16}. Codes\cite{AGP+17, ANP16, BDMB19, CG16, CG19a, CLHL15, CMPZ18, DGGP18, GZ19, GR16, La16, LCF19, Ouy17, Pud16, SS15, TZK17, TZ19}. Codimension\cite{MS19, RZ17}. Coefficient\cite{BDDSC17, PRS18}. Coefficients\cite{BS15c, BF17a, Ben18, CLR+18, JLM18, LG18, Sug17, TH16a, WZZ19}. Coffey\cite{SSC16}. Cognitive\cite{Dog18}. Coherence\cite{CKM16, Góri7, GX16, GX19}. Communicability\cite{DHHZI19}. Community\cite{FT18}. Commutation\cite{Nie18}. Commutative\cite{BS19b, AM15a, AA17, GPI18, GMM16, KM19, LZ15d, OW17, SNDM17, Ser16}. Commutativity\cite{Pan19b, Pie18, SB15}. Commutator\cite{GH15, CL17b}. Commutators\cite{SB15, CL15b, GW17a, Hou19, XCJ18, dCdR17}. Commute\cite{BFFN16, Kis15, XX12}. Commuting\cite{Bon16b, CHT19, Shi18a, Wan16c, BF18a, BS19c, BKS15, BKPS17, BKSP23, CM19, CJSW19, DBK17, FKPS18, GMM19, IKVZ18, KS17, LdIP15, LY17, Mig16, MT16, QH15, Sha16, aHRT15}. Compact\cite{ABM16, CN19a, JLM18, LWC18, PS19c}. Compactly\cite{AKPS19, KAPS20}. Companion\cite{EKS14, EKSV18, BM16b, GSSvdD16, Lee15c, VV18}. Compared\cite{QKP16}. Comparison\cite{ABD19, DU16a}. Compatible\cite{BKS15, BKSP23, LT19a, dSP15, dSP16c}. Competition\cite{FGS+16, Kim15b}. Complement\cite{AG16, AAMM18, CGMSR15, Row18, WYL19}. Complementarity\cite{JS16, See18, Bal15a, Bal15b, BP16a, CN15, CN15, DN16, DN18, WLL19, XXZ16, wXL14, wXZ19, ZGR15, ZLQ16}. Complementary\cite{FJT17, Szá16, CcdFV18}. Complements\cite{CMM19, LD17a, Row15, YCL17, YZLC18}. Completability\cite{SMBDK16}. Complete\cite{BSMSZ19, HK19b, BK18, BE19, CI15a, CGSZ16, DP18, DD17b, LN17, NS18, Obo19a, Obo19c, Shi19, VSV18, WYL19}. Completely\cite{Gow16, LT12, LT16a, Sal16, Zha18a, BDS15, GdLL17, SSV17, DDMV16, XLQC16}. Completion\cite{Ber17, Dod16, MFdM15, BA15, CMQV16, DH15, Dod17}. Completions\cite{Cal16, CJ16b, JLD17, PCI15, VQ17}. Complex\cite{HP15, LWX17, AM19, AGQ19,
cycles
[ABDN18, Ash19, GH19, MWT16a, Mac16, NY15, WZZ19, Yua14, Yua15, ZLG15].

Cyclic
[BGV17, BM18, BMR17, CLUP17, Dal17b, Far16, MP16b, Ziz16].

cyclomatic
[HHL19, TH17].

cyclotomic
[CFW15, LA16].

D
[BKLP16, Sam17].

DAHA
[NT17].

Darboux
[AM15b, CG15].

Dashnic
[LCWZ19, ZLLL18].

Data
[SUBG18, BCJ +16, CS15a, CJ16c, HPZ19, KRZ +17, KRZ +18, MM15b, Wei15].

data-driven
[SUBG18].

Davidson
[BM17a, WP17].

Davis
[ABR18, CJ17a, LSZ18].

decomposability
[LL17].

decomposable
[CW18b, YLT16].

Decomposition
[FM19a, GT16, Hou19, ÁVAK +19, BC19b, CRX15, CQCZ19, CP16b, DD17c, DU16b, DKPU18, Duk12, Duk15, FZW16, FR16, FX19, GHI16b, dMG19, GMP15b, GMP16b, GM17, HKM18, HAW16, HIR18, JS19, KMY15, KL18b, Lop15, MVPST19, MM16a, MM17, MMV19, MF1515, MV16, MMR18, Nie18, Nie19, RBKA16, Sav16, SP16, SS15b, SSB15a, SSB15a, SG17b, Van17, Wan16a, WL16].

Decompositions
[KK18, Mar18, BBEE18, BF17, CMV16, CCG17, FSSW17, FS19, Lee16, Nom15c, Ota15, Szá16, Ty19, Urs18, Ye17, dCMP17b].

decomposition
[BL15, Win16].

decreases
[JDS17].

dedicated
[BBF19].

defined
[He16b, Hon18, HC19, PMW19, Ram17, Zho17].

defining
[CR18a].

definite
[ACM17, BS15d, BJL19, BC19a, BDK +17b, CJ16b, CLS17, Fie15b, GLRT18, HL17a, HK17, KL15, KLI16, Lz17b, LNT16c, Min17, MS15b, MPV16, PR19, Riv15b, Sch16, SH15b, STZ15].

definiteness
[DLB18, HT18a].

deflated
[KR17].

deflating
[WZL17].

deflation
[LNT16c].
deformations
[BSS17, Dmy16, Dmy19].
degenerate
[Bob16, KK17].

Degree
[DGM +18, Chu16, CW16a, Das18, De 16b, DD17b, DK16, Fer15, NLW18, Sku17, Wan15b, XWL17, YHY15, ZLS17, ZWS18].

Degree-based
[DGM +18].

degrees
[BD15a, DGM17, DV19b, LLS17a, LLS17b, PS19a].
delay
[BTN +18, FM17, PM16, SN16, WZ17a].
deletion
[VSV18].

Demmel
[AGV18].
dense
[Dal17a, Duk12, Duk15, FGH +15].
density
[BDG15, Lie18, Mol18b, SCD17].
dependent
[DLHT19, GM16a, PCL15].
depending
[EH18].
derangement
[MR19].
derivable
[WMC15].
derivation
[LZ16c].

Derivations
[Bre17, Hou15, AKR15, AK16b, AA17, BCP16, CL15a, CL18, EP18a, LZ17c, NP15a, ZK17].
derivative
[UUG15].
derivatives
[Eld15, Gir19].
derived
[JLD17, LMR16].

Desarguesian
[Van16b].
descent
[VK16].
descent-like
[VK16].
descents
[AR15a].
description
[BmBCC17, DDL17, Ong18, PS19e, Ser15].
descriptions
[DSCD17, May15].
descriptor
[Mar15b].
design
[AKPS19, Bel16, KAPS20, Mic16, RGPH16].

Designing
[Van16a].
designs
[BMS15, BH16a, BL16, HMS17, Ma16, Sma15].
detection
[FT18].
determinant
[BDK +17b, BR17, Chol17b, Cos19b, Dd16, GSS15, Hil18, Hol18, HLS +16, KMS16, Rum18, RB19, Rum19, Sh18b, Yur15, Min17].

Determinantal
[LP18, CNY18, CN18, DP18, HI16, LS18a, MT15, Ple17, dCSA15].

Determinants
[HZ19, Riz19, Sot17, ABO15, BS18a, BK17b, BS18b, CLS19, HM16, Sbu17, Sci18, Zhe19].
determination
[AAG +18].
determined
[ALH15, BCC +18, BSMS19, HNR16, KHI16a, KHI16b, MW15, MLW15].
detrended
[CW15, LA16].

Detre
Developed [DKS15]. deviation [DHLT19].

DGL [BBMFM17]. DGMRES [GKS18].

Diagonal
[AM16a, AMV17, APS18, BBH16, Bik19,
BR16b, BMR17, ELN18, Far19, GX16,
GX17, HN18, HK18b, Lee15a, Nom15b,
PM15a, PPZ19, SP16, SV17, SSB15a, ZH17].

Diagonality [ACM17].

diagonalizability [dlCF16].

diagonalizable [JLDS18, JKP +17, wXjMZL19].

diagonalization [ACM17, CL19, LUC19, cSfCfX15].

Diagonally [Roh18, DM18, HW15b].

diagram [Bal15c, LCF19].

Diagrams [Sch15].

diameter [BK17a, CC17b, CNM19, DBK17, HSS16a,
LS15a, Mig16, XWD18, ZLG17].

Diaz [MF16].

dichotomy [Dra18].

dicyclic [CFH19].

difference [Dra18, EJ19, PHW16,
SNP16, SJD16, Sug17, UWYY15, UZ19].

Differences [Cos16b].

different [ALMZ +19, SY16b].

Differential [Gon15, BMO15, HLM17, LMS15, Mat15a,
Obe16, PMB15, PRS18, RRV15].

Differential-algebraic [PMB15, PRS18].

differentiating [Hol18].

differing [Dog18].

Diffuse [GHS16].

Diffusion
[BK17a, CC17b, CNM19, DBK17, HSS16a,
LS15a, Mig16, XWD18, ZLG17].

Dimations [BEKS17].

dilation [AM16a, AK16a, AK16b,
Bc15a, BB16a, BCS15, BGT +19, CG16, CVV19, Cho19, CGGV15,
CFT19, DdSjDfdv15, Das15, DR18, DL15,
FdFdSdv18, GK15, Geh15, GLW17, Hey17,
HC15, HFS15, Kpl18, Khi16a, Khi16b,
KT15, KB19, LM16b, LZ15c, LLL15, LD16a,
LC16, LZ16b, LD17a, LDZ18, LG15,
LHH17, LHL18a, Ma16, MqtW18, Mmp16,
MM17a, MS15b, Som17, TWR15, TWM16,
TW17, TW18a, XSW19a, XSW19b, X18,
ZLG17, ZD16a, ZD16b, Zhou17].

distance-based [Som17].

Distance-

Distance-regular
Ano19b, Ano19c, Ano19d, Ano19e, Ano19f, Ano19g, Ano19h, Ano19i, Ano19j, Ano19k, Ano19l, Ano19m, Ano19n, Ano19o, Ano19p, Ano19q, Ano19r, Ano19s, Ano19t, Ano19u, Ano19v, Ano19w, Ano19x, Ano19y, Ano19z.

Editors [Ano18-44]. Editors-in-Chief [Ano18-44]. effect [BLPT15, BTN + 18, FJP15a, GWL + 18, GTL + 18, LMS16, LZ16b, Yus17]. effective [KLS19b, WDV17]. effects [Ruk15, Wan16b]. efficiencies [SSH15]. Efficient [RV18, Sas18, CP16b, Per18, RKT15].


eigenstructures [DD17b]. Eigenvalue [AAS16, CR17a, ES16, FHJT19, Gho19, Mel19, Nag19, Row16a, SCS16, ATM18, Ais18a, Ais18b, ABH + 19, ABD19, BM16a, BK17a, BPP16, BPP17, BZi16c, BBC18, BMS16a, BC17b, BWSZ15b, BJJD17, CRX15, CPR18, CLQW17, CRS15, DLB18, DHW18, Duk12, Duk15, ELN18, EH18, FuIK16, FWB + 19, FI16, GM15, Gil16, GRS18, HL17b, HWXC1, HL19a, IK18, IR19, JP16, JMP17, JST19, JP18, KJS15, JS15, Kal16, KKY16, KLY18, KU16, LCL15, LM16b, LL16a, LJJ16, LLL17, LDL18, Lin15a, Ma15, MLH15, MQTW18, MPS17, Mck18, MNT19, NN19a, Nik16b, Obo16, PP17b, RMK18, See18, SzS16, SLY17, SWS19, SdFZ15, SW18b, Sta19, SSB15b, SSB15a, TW18a, Van16a, VT18, WZL17, WZ17a, Wei15, WZL15, XL18, Yas16, Yin19, ZG18]. Eigenvalue-free [Gho19].

Eigenvalues [BSS18, GM15, GM16a, JTT15, YSZ17, ASMN17a, ASMN17b, Ais18b, ABG16a, AGS17, AAKS17, APS18, AB15a, AKYD16, ARSB18, ABvN19, BK15, BK16, BM18, BGS15, BGM + 19, BM19b, BDVRT15, BCF + 18, BB16b, BF15, CR17b, Che18c, Che18b, CLF18, Che19a, CLM19b, CJSS18, Das15, DMT16, DMS19, EA17, ET16, EG15, IFwW16, FJT17, FdFdSDV18, FM19b, GAP16, GP18, Gho16, GWL + 18, GTL + 18, HKLQ16, HL18, HXL19, HQX15, HHL15, HH17, HK18b, IHH08, Jia15, JDS17, JLDS18, JMM16, KM15a, KPL18, Kri15, KIW16, KLW18, LOS19, LD16a, LWCS16, LDZ18, LTT19, Mat15c, Mel16a, Mon17, MRT15, NN19a, Nik15, Os16, PM15b, PG15, Piv19, PP18, Ref16, Row16b, SW15, Sam17, Sod18, TY15, TS18, TWR15, TW17, WLP16, WH18, Xu17b, wXjMZL19, YYMK17, YG15, YQL15, YQS16, Yua16, Zhu19].

Eigenvariety [FBH19]. eigenvector [AM16b, BMS16a, DdSDjFDV15, HW16, Ken16, Rin17, SCS16]. eigenvector-based [AM16b]. Eigenvectors [BBGM16, DT15, FWB + 19, AB16, BM19b, BS18c, Chu19, DA19b, DA19a, DV19a, GHT16, LZB18, LKY16]. eight [CF18]. element [DH18]. Elementary [CGL16, AHV19, AMZ17, Bon16a, BR17, CQ15a, JLM18, KMS17a, Lee16, MB18, Pan19a, Pas19, PR18b, SJS15]. elements [Bal17a, Bre18, CDG16, DD16b, GLAdS19, HM17a, HC19, KLIW15, MY19, Rai19, Van16b]. elimination [PQY15, PZ17b].

Ellipsoids [Kim15a, KKP19]. elliptic [CEM15b, HA15a, Kim15a, Yur15].

Elliptical [AAS18]. embedding [DPS19, VB18]. embeddings [De 16a, Han18, Pan16a]. empirical [GJLS16]. enclosure [Miy15]. encountered [BDLM16]. end [Nom15a]. end-entries [Nom15a]. endomorphism [CD16d, MMR18]. endomorphisms [KOST15, SR18, Shi16g]. endpoint [LS18b, MM17a]. energies [DMG17, DGM + 18, DR18, LL15c]. Energy
Egg15, Koz16, NW19. Finsler [Cim15]. firing [BMZB18]. First [PM15b, BK17c, Chui16, GHPS19, Hun18a, Kal16, KT17, LDZ18, Lon17, OQY17, XWD18]. Fischer [CTZ19]. fitting [HPZ19, UM16]. five [HA16]. five-dimensional [HA16]. fixed [CMQV16, DD18, FG17, JKS15, JKP16, KLL16, KKY16, NLW18, PS15, RR18a, SJD16, You15]. fixed-point [FG17]. fixing [KLW15, KLW16, KLW18]. flag [BF19b]. flags [Lax16]. Flanders [dSP16b]. Flat [KY15, BBM16, JSST16, SS17a, WH19a]. flattenings [Hu15]. flow [DvSW18, Li15b, MGM17, Per18]. flows [Ban16, HL17a, VG18]. fluctuations [MNT19]. fluid [BDLM16]. forbidden [FdFdSDV18, Li15b, MGM17, Per18]. flows [Ban16, OBRA15, XW16]. formulas [MN19b, AB16, AL18, AL19a, ACS19, BKN17, Bar17b, BBSS18, BGCMAS19, CFL16, CPW17, DS18b, DSX15, Hun18b, JCM19, KMS16, KMMS19, Som17, TH16a]. Functional [Ere16, Wan15b, Nevi18, Wój19]. functionals [Gir19, dSP19a, Pop16b, SST15, WH19b]. Functions [MN19b, AB16, AL18, AL19a, ACS19, BKN17, Bar17b, BBSS18, BGCMAS19, BEKS17, Bi19, BS19c, BU18, CPZ16a, CMP18, CR18b, CW18b, CRVS19, CLP16, DR16, DDF18, DM15, FI19a, Fa19, Fay18, FNX19, FKMB17, FKRS17, GS16, HM17a, He16a, HNS15, Hia16a, Hiu15, Hon18, HMO8, JMRV16, JG17, JS18a, JLM18, KM16, LT19a, MY16, MR17b, Mon19, NW15, Naj17, Nie19b, Pas18, RRT16, RV18, SR19, Sch16, Shi18a, dSN15, Skr17, SZ19, SS15b, UUG15, Van16a, Vol17, Yam15]. fundamental [AHV19, GZB19, IHS16, ZD15]. Further [AAG+18, BTN+18, DPU18, LW15, YHY15, ZM16]. Fuss [IS17]. fuzzy [MP15b].

Gabidulin [TZ19]. Gabor [DV18]. Gaddum [EA17, HL19a, LOS19].

Gale [RT16]. Galois [GL15b, GL15a]. game [GR15].

gaps [FCLP18]. Gau [CDR+19, Lee15b].

Gauss [BV18a]. Gaussian [FL15, FI16, Hoo19, PCL15, PQY15, PZ17b, SH15b, Zim15].
gcd [AYK17, AKYD16, AYK17, GW19b, HT18a].
gcd-closed [AYK17]. Gelfand [FH19].

General [DSCD17, FSW19, ABP15, BCM17, Bar17a, BMM16, CDR18, DL16, EH18, Hia15, KSMB15, KM18, Li15a, LX17, Miz16, RH15, SK17a, SZB19, Uch15, wXL14, wXZ19, ZKLB17].

Generalization [DFKS17, Roo19, AOK19, BFR16, Hia16b, HP15, KPRvdO16, Rao18, TW16, TGi19, Vec16]. Generalizations [Liu16a, HS19a].

Generalized [BS18c, FT16, IK18, MT15, Zem16, ZZZC15, AMPT16, AHV19, Bai18, Bla16, Bar16a, BBS16b, CEM15a, CCW18, CK15a, CJJ17c, CHT19, DA19b, DL16, DIPR18a, DIPR18b, Dra16a, DHW18, DGP+15, DM15, FuIKT16, FGS+16, FM19a, FX19, GSSvdD16, GH16a, HAW17, HPZ19, Hua19, IR19, JT18a, JZZ18, KP17, Kim15b, Koo19, KST18, KMM17, LJX16, LNT16b, LLPS19, LZ15e, dMa15, MW15, MLW15, MS17a, MS15b, NN19a, Nie19b, Pep17, PF18, RD15, SMH19, SR18, SR19, SB15, TZ19, WM17b, XSW19b, XSW17, wXMZL19, Yin19, YMZ19, ZH15, dCdSA15, BS16f]. Generalizing [SP16].
generated [FM19a, Jia15, JLM18, Kan16, KS17, KLW15, MS19, Pas19]. generates [RS18]. Generating [Mon19, SO16, AGHN18, BN17, CN15, CN19b, Vij15].
generation [RAAGA16]. generator [LMS16].

Generators [CS18b, Chi18, FH19]. Generic [DD17b, DD18, Mor17, SS15a, BC15a, Bou15].


GMRES [DHW18]. Gohberg [XW16].
gons [VGG17]. Gorenstein [Jel18]. Grad [Zha15a]. grade [DD18]. Graded [BY19, BFD18, BZ16a, BKRE18, CC16, CLOK13, CR15, LMO16, RZ17].

Gram [CA19, GSZ16, Sei18, Sim19, Yas16]. Graph [BK16, dSN15, YYMK17, ACT16, ARS16, AAMM18, AL15, AJPS16, AvdHS15, ALOR19, AM16b, AM18, AB18, BDMB19, Ben16, BPR17, BF15, CLT15, CD16b, Che18b, CLF18, CD16c, CGSZ16, COvdD16, DHL+17, Dal19, DMI16a, DMG17, DR18, DT15, DHS18, EA17, FW17, GAP16, GP18, GCP18, GK15, Gho16, GRV16, HLL19, HFS15, HZ17, JT17, JLS18, Ken16, Kob17,
KMS16, KIS18, KMMS19, KLW15, KLW16, KLW18, LHL18b, MWT16b, Mes17, Mig16, MMS18, MM15b, MS16c, Mon17, NS15c, Nik15, Nik16a, OP16b, Per18, PG15, Piv19, SW15, SAfF15, STW18, STW19, TNK16, TWR15, TW18a, VSV18, Wan15a, WM17a, WDV17, WH18, WYL19, WF19, WWC18, XLLS18, ZG18, Zho17, ZWS18, vDS16.

Grassmann [SFW18, FZL +17].

Graphs [Alf18b, BFM19, CRS15, LS15a, MQTW18, TW17, dFNP16, AAB +16, AAG +19, AJO15, Abi19, AG15a, AyLPS18, ASM17a, ASMN17b, AHMM18, ABH +19, AAS16, AAKS17, AT15, AAC +15, ACRR15, AGR16, APR +17, ARS17, ALMZ +19, AB17, Ash19, AH16, AP15b, ABK19, BMM19, BK15, Bah19, BM17b, BK17a, BPP16, BPP17, BK18, BF17, BS15c, BP15, BSS16, BZ16c, BBC18, BCC +18, BSM19, BSP19, BK17c, BF15, BH16b, CR17a, CR17b, CR18, CPR18, CcDV18, CR19b, CLL15, CL16a, CL17a, Che19a, CLM19b, CFI19, CJKM19b, CJKM19a, CV18, CW16b, CGG15, CJ17d, Dah15b, Das15, DMT16, DGM16, DS17a, DGM +18, DG18, Das18, DHHZ19, DMS19, DLG16, DР19, DBK17, DL16, DL15, DM15, ET16, EB17, EHHL17, EHP18, ETF18, FIw16, FCL +16, FJT17, Fio16, FKD15, FSSW17, FS19, FHJT19, GGH15, GH19, GS17].

Grassmannians [BHML15, Pan16b, Pan17].

Green [CEGM16, CEM15a, GJK18].

Grid [CDRT17, KN16, OL16].

Ground [LM19].

Group [FJMP15, KY17, AMC18, ABP15, Bie15, BS19b, BJ15, CS19a, CH19, CJ17b, CS18b, DHH18, Gae16, GH15, He16b, HS17, KLW15, KMM17, LH17, LMM +16, MBB +18, MY19, PB16, Pop16a, RB16, Sri17, Van16b, Wei17, WH18, XW16, ZMT19].

Group-subgroup [RB16].

Group-theoretic [FJMP15].

Groups [AJ19, BD15a, BRN18, BMZB18, CLUP17, Che15b, CHK17, CW17, DF15, DF18, DH19, Far16, GG18, Gae16, GP19b, KMOR19, LMPM17, MS19, MOR16a, NT19, Oi19, Saw16, Sin17, TZ19, Zem16].

Grover [KST18, LT18].

Growth [AB19, CR15, bCR18, LHC15, RZ17].

Grundy [Lin19].

GTS [NS19].

Guarantee [Lin16a].

Guarantees [ZC15].

Guo [AB15b, AMNR18, Rob19].

gyroscopic
[CL15c].

H [CS19b]. H-matrices [CS19b].
Haagerup [Ali20, HAD19]. Hadamard [FJS21, AMV17, BS15a, BGKP19, CM18, DHW16, FJS17, GW16b, GX17, HL17b, HW15b, Jai17, JKP17, Kar16, LK16, NS17, NW19, Pep17, RS17a, Roo19, RWH17, TG19, Zha18c]. Hadamard-type [HW15b]. Hadamards [MB15]. Hajós [Jen17]. Hajos-type [Jen17].

Half [EV15, YDYY18, AM19, CD16a, HT18b]. Half-radial [HT18b]. Half-spin [CD16a].

Halfspaces [SW16]. Halley [LG18].

Halmos [LMX19]. Halves [Bar19].

Hamburger [CJ16b, HZC15]. Hamilton [BBS16b, LN17].

Hamiltonian [LSX15, LS18b, SS15c, ZG18, Zhu19].

Hamiltonicity [Ben16].

Hankel [Al’17, BS18a, CJ16b, CI15a, CI15b, DS19b, FM19a, HKM18, Xu16, Yur15].

Hans [BMS16b].

Hard [BC17b, FS19a, RSS17]. HARDI [CS15a].

Hardy [AP15a, ANAPSR17, HJW19, Nin17].

Harmonic [Vec16, Yam15, Yin19].

Harpe [Ali20, HAD19].

Haukkanen [AKYD16].

Having [BK17a, BBH16, ET16, HLG15, IKVZ18, Nom15a, Nom15b].

Hecke [Rai19].

Hedetniemi [KM19].

Heisenberg [LZ15e, Pop16a].

Helly [BJC15].

Hemispaces [EHN16].

Herglotz [ACS19].

Hermite [BDM18, ACDT+15, Joe16, PP18, Reb19].

Hermitian [ACM17, BS18, BBGM16, BBFF17, CG19a, CRC17, CLZ16a, CS18b, CSQ18, FM16, GXY217, GMO19, Lai18, LL15c, MNTX16, Moh16, Ore16a, Ore16b, Sch16, SW128, TC15, Vec16, Yin19].

Hermitian-adjacency [L15c].

Hermitianity [HK19c].

Hamiltonity [Ho17].

Hessenberg [BR16b, DHW18, Mar16].

Hessenberg-upper [DHW18].

Hessian [CPW17].

Heterogeneous [Ruk15, Zha15c].

Hiai [Wad18].

Hidden [DN16, LL16b].

Hierarchical [DH15].

Hierarchy [Ong18].

High [CS15a, GdLL17, KU16, Lom17, MH15, SSH15, TW18b, WZ17a].

High-dimensional [KU16].

Higher [BBMF17, AAS18, AMC18, BGV17, BBT15, CLUP17, CL16, Fre18, GH16b, GS15, HMNP15, KKP19, LZ15a, SL16].

Higher-dimensional [CL16].

Higher-order [GH16b, LZ15a, SL16].

Highly [CLM19a].

Higman [LMP+17].

Hilbert [AK19, BF18a, BCKL17, BSZ18, Bil19, CR19a, CGL16, DY15, GKR16, Jel18, LMX19, MS17a, MEMM17, OZ15b, Pan16b, PCI15, Pop16a, Vir16, XF17].

Hilbertian [BFA18, FG16, Zam19].

Hille [Bob16, CJRMF+15].

Hille-type [Bob16].

Hilton [GL17].

Hlawka [BS15d].

Hoffman [KLY18, KSTY19].

Hold [DV18, Wad18].

Hölder [Kal18, Zou19].

Holomorphic [BGCM17, SS16, Bal17a, BGdCM17, Bil19, FCM17b, Nev18].

Homogeneous [BB16b, IL17b, PC15, Vas15, Zue18].

Homology [BBMF17, CCW18].

Homomorphism [Jen17].

Homomorphisms [GRV16, OP16b, dSP15, dSP16c].

Homotopies [BV18a].

Homotopy [KL18b].

Hook [NS17, Sri17].

Hopf [BBdH16, BBdH18, MG18b].

Horizontal [CJB18].

Horn [Bar15, CW18a, DP15a].

Hou [Bai19].

Hourglass [Koz16].

Householder [RMP18].

HSS [Bai18].

Hua [HIS16, LHZ16, Lin16b].

Hua-type [LZ16].

Hulls [AM19, KS15a].

Hurwitz [BS18a, Dya17, PM15a, Riv15b].

Hurwitz-type [BS18a].

Hyper [BT15].

Hyper-ideals [BT15].

Hyperbolic [GT16, LP18, MHS15].

Hyperbolical [SO16].

Hyperboloid [SO16].

Hyperboloids [Kim15a].

Hypercube [Mir18].

Hypercubes [KHI16a, KHI16b].
hyperdeterminant [YLB15]. hypergraph [HQX15, Pea15]. hypergraphic
[CRRY15, CLR+18]. Hypergraphs [Nik17b, BL18a, BCM17, CLN15, Duk12,
Duk15, DR19, FuIKT16, FBW+19, FBH19, JZZ18, KNY15, uIKF15, LZB18, LZ16a,
LZM16, LZW17, LZ17a, LKY16, LM16c, OQY17, RS17a, SY17, SZB19, XLQC16,
YYB19, YQS16, ZLK18].
Hyperinvariant [AW15b, AW15a, FMM16].
hypermatrices [Nik17a, Nik17b].
hypermatrix [GF17, Pea15].
Hyperplanes [Pan15b].
hyperplane [FGG+18].
hyperplanes [Pan15b].
Hyperpower [SSH15].
Hypersurfaces [UM16].
Hyperinvariants [Rei19a].
Hypersurfaces [UM16].
Hypertrees [GZ18, ZKSB17].
Hyponormality [Lee19a].
Ideal [HR17, Pop16b, Ris16]. ideals [AKS17a, AKS17b, BT15, CKM19, HR17,
JLM18, KVV17, Ris16]. idempotence [LP15].
Idempotent [Bot16a, GT17, LP15, Ste18, TXZ18].
Idempotents [AJL16, BES16].
Identifiability [Wan16b]. Identification [LPPZ19, Hoo19, NAS18]. identifications [SBB15].
Identifiers [GZ19]. identifying [BDMB19].
Identities [UG18, AGN18, BY19, BKNS18, BLDsV19, BV18b, CR15,
Ere16, HHJ15, LMR16, TZZ17, Wan15b].
Identity [AMPT16, BaHOS15, LMS16, LLSX15, Rum18, RB19, Zha18b, dCdSA15, vWZ17].
Identities [BR16a, DPV19, DvD16]. Ihara [KMMS19, Son17].
II [dSP19c, AKS17a, BS16c, CJKM19b, CSJ16, DV19b, EHLP18, FMK17b, GH15, Hia16a,
KLY18, Ore16b, PT19, She17]. III [AKS17b].
ILAS [CFH+16, FLV18, GPW15, GHPS19]. ill-posed [BB18].
Ilmonen [AKYD16]. image [DdSc+16, PS16, Win16]. images [AEV15, Fag19, LNT16a, Lau18, LT16b, MO16].
imaging [CS15a]. immanantal [NS17, NS19]. immanants [Tab16].
Implementing [CG19a]. Implications [BDP18a]. implicit [CMV19, SNP16].
imprecise [Sku17]. imprecision [Sku17].
imprimitive [MP16c]. Imprimitivity [AGH17]. improve [AM16b]. Improved
[Che18b, DM18, XL18, LH17, Xu17b]. Improving [OVW18].
incentive [LT19a]. incidence [AB18, CR18b, CDH18, IIMH08, Ma16, MMM19, WZZ19, ZK17]. including
[Ern18, JLD17]. inclusion [BWSZ15b, BJLD17, DLB18, ELN18,
LCL15, LL16a, XF17, YZL+19].
Incomplete [LSM18, Mic16, iT16, iT19]. inconsistent [BW19]. increasing
[CR19b, Gar17]. Indecomposable [CPS17].
indefinite [MV16, MSSZ17, ME15, NN19a,
SG17a, VK16]. independence [ACT16, JL16a, LL18a, ZLG17].
independent [bCR18, MC19, OL16, Vij15].
determinates [HZ15].
index [AGH17, AMNR18, BOT19, CR19b, DG18,
DS19b, FW17, JDS17, Kim15b, LZ15b,
LS19, LL17, LL18a, MMS18, NY15, NR18,
PS15, Rob19, SPBB19, SG16, Yua14, Yua15,
ZW16, dFNP16, Rod19]. indices [WWT18].
indices [APR+17, DA19c, FGS+16, HLW15,
HWL15c, Pa16, Son17, SS17b]. induced
[KSTY19, Mar18]. inductive [MHA18].
Inequalities [BM19b, BJ19, CS19a, Chol17a, Cho17b,
HvdD16, AOK15, AO18, AKS17a, AKS17b,
AN17, AK19, ANAPS17, Bar17a, BS15d,
BLY16, BBP19, CPZ16a, CM16, DKS15,
DS15, GW18, GHK17, GLRT18, HRM18,
Hoa17, HWXC18, JM16, JML18, Kal18,
KMY15, KL17, KMS17a, Lin16b, Lek16,
MN15, MRS15, MF16, NS17, Nie15a, Nie15b,
Reb19, Ric19, Sab15, Sab18, SMH19, SDK17,
She17, SWB19, TNK16, Uch15, Ulu19,
WDFS17, XCJ18, Zam19, Zha18a, Zha19a,
Zou19]. inequality [Ali20, ACPR15, AP15a, BNST17,
CJRMF+15, CPZ16b, CTZ19, CS17, CW15b,
CJ16c, CJ16d, FS19b, GXYZ17, HAD19, Hay19, HL17b, IKW16, JZC19, LS18a, Lin15c, Liu16a, Nun17, RRV15, Roo19, RWH17, Wad18, Zha19b, Zou17. **Inertia** [HT18a, NN19a, AvdHS15, AvdHS16, BS16a, FW17, LS19, LLL15, LOvdD18, WWT18]. **inertias** [BOvdD17, COvdD16]. **inexact** [BM17a]. **Infimum** [WLL19]. **Infinite** [BGdCCMSS17, DE15, ET18, MS17a, Min17, ABO15, AMZ17, Bie15, BS16e, CG19c, CJ17c, Dya17, Egg15, EGT15, HLZ17, Hou19, Hou20, KL19b, LD17b, LMR16, MK18, NT19, Pan17, PMW19, PP15, PPZ19, SR18]. **infinite-by-infinite** [Egg15]. **Infinite-dimensional** [Min17, CG19c, Pan17]. **Infinitely** [VB18]. **infinity** [GS19b, LCWZ19]. **Inflation** [SZ17]. **inflations** [MM19a]. **influence** [BK17c]. **information** [DKS17, Mel19]. **initial** [AGQ19, AL19b, BEKS17, FZwCW16, FS19b, Mag16, MSSS17, PP18, SG17a]. **inputs** [LPPZ19]. **Insight** [CQ15b]. **Instances** [DK16]. **instructional** [Dog18]. **integer** [Bor17, Mac16]. **integers** [San15]. **Integral** [BK18, CFH19, San15, ALOR19, Bal17a, Cal16, CDMP15, CS15a, CX17, CW16b, DN18, FdC15, HK19a, JKP16, Mir18, Ota15, PS19a, San18, Wim16]. **integrality** [DN18]. **Integrally** [MS16a, PS17]. **integration** [BPT15, Van16a]. **Integrators** [AMH11]. **intercyclic** [VV18]. **interlaced** [MM15b]. **Interlacing** [DK16]. **interlaced** [MM15b]. **Interpolated** [Sab15]. **Interpolating** [Zha19b, RV18]. **Interpolation** [BDM18, AL18, HZC15, MM17c, Ste15]. **interpolational** [UY17]. **interpretation** [FKD15]. **interpretations** [LPP15]. **interrelations** [Riv15b]. **intersection** [KKL17, PRS19, SXD16]. **intersections** [RV18]. **intertwiners** [Ter17a]. **intertwining** [DSCD17, MMS16]. **Interval** [Mys16, RS18, WT18, Gho19, Hla15, HS19b, Li15a, LX17, Li19, MP15b, MP19, PM15a, PS18b, Rub19, wXjMZL19]. **intervals** [XL18]. **intriguing** [BM19a]. **Introduction** [Bru16a]. **Invariance** [AG17, BJ15]. **Invariant** [CQ15a, ACRR15, AG15b, AG20, BBEE19, BB16a, CK17, CFP18, CJW19, DG18, DH19, DS15, JLM18, KT17, KLL18, KMS17a, Lee19b, LP18, LNW17, MRS18, MOR16a, NINS16, NP15c, Ouy17, Ram17, Sab15, SK17a, SW16, WL15, Zha19b, Zha15c, Zou19]. **invariants** [DS19c, GRV16, KLP18, Obe16]. **Inverse** [BS16a, CS19b, CIY15, CNY18, ES16, ES17, HC15, HFS15, Wei15, AT18, AIS18a, AIS18b, AB18, BW16, BPP17, BFM19, Bik19, BC17b, BC16b, CJ17a, CGMSR15, CGDM16, CL15c, COO15, DHO18, EJ18, GMLdS16, Hoo19, JT18a, JMRV16, JP16, JMP17, JP18, JS15, KB15, LD1L18, LCWZ19, LL16c, LMM16, MA15, MN15, MPS17, Miy15, MK18, NMBA19, Nor18, QWW18, Rak17, SL17, SW18b, Wei17, XSW17, YW16, ZC15, ZHO17]. **inverse-free** [JMRV16]. **Inverses** [LL19, PP17a, WZ17b, BJKR17, BKNS18, BB16, CFM16, DM18, Dra16a, ELN18, HWZ15, KC16, Niv15, OP16a, OP19b, PS15, PCI15, PHW16, RD15, SR18, SH17a, SSHA15, SZX16, WX16, ZMT19, ZZC15]. **inversion** [EGT15, KP19]. **Invertibility** [PPZ19, DS19b, YMYK17]. **invertible** [CS19a, CKT19, KKA15, LY17, Ore16a, Ore16b, PS17]. **investigation** [GO18]. **involution** [BLdSV19, UG18, ZZC15]. **involutions** [AR18, BKRE18, GT16, HLZ17, Hou19, Hou20, LMP17, dlC15]. **involutive** [FKS16]. **involutory** [Kim15, XX12]. **involving** [CGMSR15, Das18, FI19a, GHK17, HL17b, KMS17a, LIN15a, SS17b, UWYY15]. **Iowa** [GHPS19]. **irrationals** [OZ15a]. **irreducibility** [GJ18].
Laplacian-energy-like \cite{DG18}. Laplacians \cite{FCLP18, MM19b, NS17, Nag19, SCD17}. Large \cite{BDFR15, dSP16c, dSP16d, BW19, BGM +19, BB16a, BDLM16, CR18a, EM17, HK18a, Jia15, LMS15, MNT19, PS19d, VHB18, Yin18}. large-scale \cite{BB16a, EM17, HK18a, LMS15}. larger \cite{YSS16}. largest \cite{ABH +19, AB15a, BK17c, Che19a, CLM19b, DMS19, IFwW16, FuIKT16, HQX15, Kim15b, Lin15a, LDZ18, MHL15, McK18, Obo16, OQY17, SAdFZ15, Sta19, TW18a, XWD18, YQS16}. lasso \cite{WLH18}. latin \cite{War17, Shi18c}. lattice \cite{EHLP18, Joe16, MMR16, MMR17, MMR18, WDFS17, YDYY18}. Lattices \cite{BFG +16, BF17b, Bie15, LM17, MdlP16, Str18, Yam15}. Laurent \cite{Che18a}. law \cite{PCI15, XSW17, dCdSA15}. laws \cite{NN19a}. Lax \cite{AS17}. Layout \cite{RR18b}. LCM \cite{AYK17, HT18a}. leading \cite{De 16b, HJ16}. learning \cite{SH15b}. least \cite{BZ16c, BBC18, CGDM16, CKM16, CGM17, CRS15, DS18b, Eld15, GFM17, HK18a, JKS15, KL15, KLY18, LM16b, LC19, LHC15, NZZ15, SZ17, UM16, WZL15, YAS16, ZG18}. Lee \cite{Mor16b, SSS15, TZK17}. Left \cite{Dra16a, HW16, Lie18}. Legendre \cite{Reb19}. Leibniz \cite{LMO16, CC16, CLOK13, CILL16, KKO15}. lemma \cite{Alf15, CS15b, CJ17c, DP15a, Lev15, Cim15}. Length \cite{GMM19, WZW19, DF15, DF18, LMS16}. Lengths \cite{GMM16}. Leonard \cite{AC15, HLG15, LGH15, Nom15a, Nom15b, NT17, SGH16, Ter17a, WHG17}. Leslie \cite{Ben18}. less \cite{FZwCW16}. Leuven \cite{FLVV18}. level \cite{KRZ +17, MP18, WQH19, Zas16}. lexicographic \cite{WW18}. LFED \cite{Zha17}. Lipski \cite{MRS15, MRS18}. Lie \cite{ABM18, AEV15, AKN15, AK16a, AK16b, BC15a, BdCL17, BCS15, BCS16, BP19b, CCIT18, CPS17, CCW18, CW15a, CL15a, Chi18, Cos19a, CLP16, Der19, DR17, EF19, FKPS18, GIP18, HAM16, Hol16, HK19, KLS19b, LL19, LZ16c, LZ17c, LGZ18, PR19, RZ17, Saw16, Wani16, WZ17b, ZK17, Zms17b, vWZ17}. Lieb \cite{Bek16, FS17b, Hua19}. lifts \cite{CV17}. like \cite{AB16, BDP +18a, CCGO17, DG18, DA19c, DF15, DF18, LWY16, LZSD17, LZSD18, Mel16b, Nie15b, RW16, VK16, Zhe19}. likelihood \cite{Ruk15}. Lim \cite{DDF17a}. limit \cite{Ban16, LMM +16, Yin18}. limited \cite{EM17}. limited-memory \cite{EM17}. Limiting \cite{Tab16, CG15}. limits \cite{Bik19, Ege16, Nat19, PR18b}. Line \cite{Her16, ALMZ +19, CG19a, DF16, Dal17a, DGM16, DM16a, FdC15, GCP18, Gre18, HS19a, LMDRZ18, MST15, Ref16}. line-Hermitian \cite{CG19a}. Linear \cite{AMR19, ASMN17a, Ali20, Ano16a, AG20, Ball15a, Ball15c, Ball18, BR19, BTW16, BMVW16, BF17b, BO17, BKS23, CC17b, CR18b, Dog18, Duk15, EKS18, EP18a, FJS21, FL15, GP18, GWL +18, GJK18, GHS19, HF18, Hou20, HSS16b, KAPS20, KS19, KHI16a, LMO16, LM16a, Laut18, LT16a, LLS17a, LZSD18, LD16b, LD17b, MR15, Nom15c, PW20, Pud16, RB19, SM18, XFDZ17, Yua15, ZL15a, dCDFK18, dS19a, ABP15, AAdFS19, AJ19, AKM17, ABO15, ANAPSR17, ABGJR +18, AW15b, BW19, Bal15b, BP16a, BLPT15, Ble16, BF17a, BGCMüss19, BS16c, BRN18, BM17c, BL19, BMO15, CEM15a, CVV19, CNX17, CJ16c, CJ16d, CJ17c, COS18, CFNP17, Cus17, DGCC16, DGMP18, DS18b, DdF16, DU16a, DN16, DN18, DdC16, EE16, Ema18, EJ19, FM17, FHS17b, FKPS18.
GM15, GSP16, GC19, GR15, Gow16]. linear
[Gré18, GRBS15, GHT16, Hla15, HR16,
HS9b, Hoo19, HM17b, KL18a, KKA15,
Kis15, KÖ16, LNT16a, LPPZ19, Lee19b,
Li15a, LX17, LLL17, Li19, LS18b, Lom17,
Mar18, MSSZ17, MMR16, NA15, NN19b,
NINS16, NT19, NP15a, Nie15b, Obe16,
Ok15, ÖK18, PSG16, PSM18, dSP19a,
PMB15, Ram17, RJK18, RH15, RT16, RW17,
SFW18, SR18, SNP16, SDK17, SK17b, SSS15,
Shi16b, Shi16c, Sug17, SS15c, TZK17, TXZ18,
VGG17, VF17, VG18, Wan16b, WZL17,
WT18, WLL19, Wan19, Wój19, XX12,
wX14, XvdBvdLS15, wXZ19, YLT16, Yin18,
ZD15, ZZR15, ZC15, ZH17, ZLQ16, Zha19].
linearization [BSS18, VT18].
Linearizations [MP16a, PM18, AB16, BDFR15, BBFF17,
CCGV +19, DA19a, DMQ19, FS17a, NP15b].
linearly [Mar15a, MC19, Vij15].
lines [CGSZ16].
Liouville [GM16a, YSZ17].
Lipschitz [AAdFS19, BP16a, BZ16b, GMW18, Oi19].
lists [HMPT18].
list [AMR18, BCJ +16, JZ18, MAR17, MN19a].
Littlewood [AP15a, ANAPSR17, Num17].
LNED [Zha17].
load [Zha15c].
Local [AKR15, AK16a, AK16b, AA17, CW15a,
CL15a, Cos19a, CDH18, LZ17c, MRS18,
AAM15, ABM18, ÁVAK +19, BM17a, BE15,
Ben15, BM15, BL18c, BCP16, CP16a,
CJ16c, Cos16a, CS18b, CQS18, EJ17, EG15,
Est16, HLM17, NT19, NP15a].
local-global [NT19].
Localization [BM18, BM16a, JL16, Mel19, NN19a].
localizations [SKC18].
locally [AW15b, Beh17, Bik19, Che18a, DF16,
Man19, TXZ18].
location [AAS16, FHJT19].
loci [BBT15].
Log [Jel18].
Log-Determinant [Min17].
Log-majorization [AGS17, Hia19, Hia16b].
Log-majorizations [HL18, LS18a].
logarithm [Miy19]. logarithmic [BES16].
logarithms [BNST17]. logistic [KM18].
lollipop [BP15]. long [GH19]. look [UZ19].
look-ahead [UZ19]. loop
[BGM+19, BBGM16, GS16, Sz17, Zaj19].
loop-free [GSZ16, Sz17, Zaj19]. loops
[AvdHS15, AvdHS16, GPI18, Sim19]. loose
[Xu17a]. loose-coherent [Xu17a]. Lorentz
[Bal15a, HC19]. losing [BdP18a]. Lovász
[OP15].
Low [BA15, GS19b, RS17, BB16a, BR16b,
COC15, FS19a, GH17, HKM18, IHS16, KU16,
MS19, Mor17, OV18, PQ15, RGP16].
low-dimensional [BB16a].
Low-rank [BA15, GS19b, FS19a, GH17, KU16, Mor17,
PQ15].
Lower [AR16, AP15a, CLL15,
DTZ16, TWM16, WW18, AL15, ARS17,
AdFRR18, Bal15c, CR19b, HW15b, Mor17,
Obo19b, SP16, ACRR15].
lower-upper-lower [SP16].
Lowering [Ter15].
Lowering-raising [Ter15].
Löwner [Pas18].
LS [MVPST19]. LS-category [MVPST19].
LSMR [HKP17].
LSQR [CN19a, HKP17].
Lur’e [SL16].
Lvov [DK16].
Lyapunov [eFLYL15, Gö17, GX16, GX17, GX19].
MacWilliams [TZK17].
made [Kai16].
magic [KKL15, War17]. magnetic
[FCLP18].
maintaining [MGM17].
Majorization
[DS18, Fie15a, Nie15a, AGS17, Dah15b,
EE15, EM15, Gow17, Hia16b, Hia19, Lin15c,
Lju15, LD16b, LD17b, NA15, Obo19a,
Obo19c, PP15, XF17].
majorizations
[HL18, LS18a].
majorizing [Sab19].
Malcev [HAM16].
manifold
[BA15, DH15, DSX15].
manifolds [BC19a].
map [BP16a, Dyn16, MPS17].
mapping
[Cus17, GMLdS16, Tsa16a].
mappings
[AAdFS19, BMGP15, CC17b, DGG17, DS15, DdFR16,
FJ17, FJM18, eFLYL15,
FHS17b, MSSZ17, Wój19, WMC15, Zha18b].
Maps
[AAM15, BE15, BM15, KP17, MPV16, Pet15,
ZH15, AKS17a, AKS17b, BS16c, Bou16b, BL18c, BL19, CP16a, CHK19, CKL17, CTK19, COS18, Cos16a, Cos16b, Cos19b, DdC16, EJ17, EP18a, FMR19, Gow17, HF18, HYH15, HLS+16, KVP19, LT12, LT16a, LT16b, LY17, MR17a, Mar18, MS16b, MM17c, Nie15b, Oi19, Ong18, PC15, QH15, SDK17, SK17b, STZ15, Vir16, XFDZ17, YT16, YdB19, YLT16, YL17, dB19b.

Mardia [H¨ur15]. marked [CFP18].

Markham [LZ17b].

Markov [BPZ17, BK17c, BCF18, CLR19, Cho19, GZB19, Hun16, Hun18a, Hun18b, JLT17, LZ15a, Mas17, Reb19, SY16a, Sab19, Sku17, SH15b, VB18, Vas15, WC15].

Markovian [GCQX15]. mass [HZC15]. matchable [AJ19]. matching [Ash19, HHL19, MWT16b, TH17, TW16a, WW18c].

matches [Mes17, MM16b, TD15, YG15]. mates [CHJM18].

Mathematical [Zha15a]. Mathematics [Bru16a].

Matic [Zha15b]. Matrices [AR15a, Bre18, CLST18, CSJ16, GS17, GdLL17, Hill17a, LdlP15, RFPS18, AMR16, AOK15, AM19, AAS18, ATM18, AG17, AMR19, AJL16, AK19, Alfi1a, APS18, ANP16, Alo15, AKY16, AYK17, ACM17, AMZ16, AdF19, ARS17, AMNR18, AMR18, AMG19, APT17, AGV18, ABK19, BJ16, BW16, BAI18, BFF16, BM18, Ball15a, Ball15c, Bal17b, Bal18, BM16a, BS15a, BK19, BBdH16, BBdH18, BDDO16, BP16b, BBH16, Bar16b, BG15, BGM+19, BF18b, BF19a, BS18, BM19b, BE15, BN17, Ben18, Ber17, BS16c, BJL19, BC19a, Bi15, BDLM16, BR16b, BBGM16, BBC+15, BDS15, BC17a, Bor17, BC19b, Bot16a, Bot16b, Bou16b, BM15, BC15b, BSS17, BGSS18, BHSS18, BS16f, BM16b, BaHOS15, Bri17, BCU15, BGGS16, BD19, BR18, BO15, BO17, Bur15, BV18b, CCIT18, CRX15, CU18].

matrices [CC19, CDR18, CEM15a, CR19b, CLR19, CPZ16a, CGMSR15, CM18, CHK19, CR18a, Cha19, bCR18, CRC17, CS19a, CS19b, CLW15, CXL16, CIY15, CL17b, CKS16, CJB18, CS18a, CK19, CN17a, CN17b, CN18, Cho17b, CTK19, CS15b, CHB15, Chu19, CI15a, CI15b, Chu15, CM19, CD16c, CW16a, Cos16a, Cos16b, CJW19, CLP16, CLS17, DD17a, Dahl15a, DA19a, DA19c, DB19a, Dax17, DDCY17, Dev19, DD16a, DD19, DAG16, DEH16, DDF17b, DKF+15, Dmy16, Dmy19, DO16, DL16, DM19, DM18, Df15, DE15, DN16, Dc16, DS17b, DU16b, DKPU18, DWH16, Dya17, ELN18, Ege16, Egg15, EHK16, EM16, Ern18, EGT15, ET18, EW19, Fag19, FOvdD16, Far19, FT16, FMR19, FdC15, FM19a, Fie15b, FGH+15, FM16, Fik18, FM19b, FI16, FKM17a, FR15, FR18, GG18, GSW16, GSSvdD16].

matrices [Gar17, GW16b, GWW16, GL19, GXYZ17, GH17, GIM16, GM16b, GT17, GMP16c, GW19b, GHT16, GKH17, GLRT18, GL15b, GL15a, GL16, GMM16, GS16, GJ18, GT18, GMM19, HS18, HKM18, HvdD16, HT18a, HAWM16, HS17, HJW19, HL17a, HJ16, Hill17b, HW15b, HP15, HT18b, Hon18, HL17a, Hou19, Hou20, Hrou16, HWZ15, Hu15, HSS16b, HSS16, HNR16, HLS+16, Hu19, HL19b, H¨ur15, HK18b, IKVZ18, IW15, IHM08, IK18, IKW16, Jai17, JT18b, JS16, Jia15, Jin15, JSST16, JZ16, JZ17, JZ18, KLS19a, Kan16, KS17, Kar16, KLP18, KKL+17, Kim15b, KL16, KLL16, KK18, KLL19, KQZ16, Kis15, KL17, KM16, Kob17, KLS19b, KK17, KY17, KH17, Koz16, Kurs15, Kus16, LL17, Lai18, LLP19, Lee15b, LP15, Lee15c, LL19, LT16b, LHZ16, LDL18, LCW19, Lia17, Lie18, Lin15b].

matrices [Lin16b, Lin17a, LZ17b, LL15c, Liu15, LY17, LT19b, Lek16, LS17b, LSM16, LMS18, LMR16, Lyn15, MO16, MY16, MM19a, MS16a, MAR17, MS15a, MM16a, MMP17, MMV19, Mar16, Mar15a, MV16, Mat15b, Mat15c, MP16b, MP16c, MN19a, MNT19, MN19b, Moli18a, MS15b, MPV16, ...
matrices [She17, Shi16e, Shi18a, SSV17, SCD17, SH15b, SS18, SB18, SUY16, Sol18b, SW18a, Sot17, SJS15, SS15b, SV17, Ste18, SSB15b, SSB15a, SG17a, STZ15, SW18, TH16b, Tan16b, Tan19, Tar18, TS18, DDM16, Ter18, TW18b, Tsa16a, TW19, TCD15, TC15, TG19, Uhl19, UG18, VB18, VQ17, VQ19, VV18, Vec16, VHB18, VG15, VB19, Wan15a, WLP16, WQ19, WLL19, WZ17b, WMC15, WHC17, XW16, XW12, wXL14, XFZD17, XSW17, wXZ19, Yan16, YDH18, Yin18, Yor17, YZZ18, ZS17, Zha18c, ZMT19, Zha19a, ZLL18, Zhe19, ZM16, ZF15, Zim15, dCF17, dC15, dCMP15, dC15, dCG18, Tsa16b].

matricial [FKM17a, FKM17b, FKMS18, HZC15, JP17, ZHC16].

Matrix [AMH11, BLdSV19, Bru16a, BPT15, Che18d, CPW17, DKS17, Eve18, He15, KMS15, MN15, MHA18, MP16c, Nat19, PW18, PV17, Rao18, ZSQ19, Zhe19, AMR+16, AR16, AG17, ARR18, ASM17a, ASM17b, Ais18a, AGH17, AGS17, AGN18, AB16, Al17, AB15a, AMZ17, ADW19, ABD19, AL16, ACDT+15, ABK19, AA17, AB18, BR15, BntBCC17, BS15b, BS16a, BES16, BDG15, BB18, Beh17, BGKP15, Ben15, BGT+19, Ber18, BLy16, BR16a, BHK16, BFD18, BHP17, BA15, Bou15, BDK+17b, BC16b, BaHOS15, BS19c, BDFR15, Bün17, BR17, CL19, Cal16, CJ17a, CG15, Cha15, CCGV+19, CLT15, CMQ16, CPW17, CLR+18, CLM19a, CJ15, CA19, CJ16b, CS17, CYD19, Ciu15, CDTZ15, Cos19b, CHT19, DGS18, DdSJaFDV15, DA19b, DI16, DLL17, DDMP19, DR16, DKS15, DHLT19, DF15, DF18, DPR19].

Matrix-products [BR15].

Matrix-tree [BPT15].

Matrix-variate [Mat15a, MP17].

Matroid
Model [WLH18, BFFN16, BCMASS15, HvdD16, KM18, LHC15, Mar15b].
models [DV18, Ema18, FL15, GH16b, HPZ19, KÖ16, ÖK18, QWW18, RH15, Ruk15, SNDM17, Wan16b, Zha15c].
moderate [ET16].
modifications [SSB15a].
modified [AL19b, CLLS17, JM16, JLM18, wXL14, wXZ19].
Modified [HMS17, SY16, TC15].
modularity [BBC15, FT16, FT18].
module [CD16d, Gua18, IKR16, LT12, LT16a, LMX19, Shi16g].
Modules [HCS17, CPS17, Gon15, LZ16c, LZ15e, MM17a, MEMM17, XF17, Yan18, dSRST17].
moduli [AGS17, Pie18].
modulus [Cos16b, MS16b, XXZ16, wXL14, wXZ19].
modulus-based [XXZ16, wXL14, wXZ19, ZZR15].
mohy [Fis17].
moment [CIY15, CJ16b, DE15, EGT15, FKM17a, FKMS18, HZC15, LM17, Lop15, PS19e, Riv15a, ZHC16].
moments [Léke16].
monic [CK15a, FK16].
monoid [CD16d, CLR16].
monomers [NS15a].
monomial [Lax16].
monotone [Sch16, BU18, DDF18, Hoa15, JS18a, Mas17, Naj17, Nob16, Pas18, iT16, iT19].
Monotonic [Gre18, AB15a].
Monotonically [ZF15].
Monotonicity [LG18, WL15, Cas19, DKS17, DDF17b, GMW18, Nag19, NW15].
Monte [WC15].
Montgomery [Cox15].
Moody [Sin17].
Moon [LN17].
Moore [AB18, CGMSR15, CGDM16, Dal19, HWZ15, KB15, Nor18, XW16, XSW17].
Moreau [Sol19].
Moreau-type [Sol19].
Morphisms [Cha19, EC19, CLR16, DKNS16].
Morrison [ACM15].
Moser [LN17].
mot [Alfi18b, CJ17d, EHK16, PS19a, TW17].
Mostow [GM17].
MRD [CMPZ18, GZ19].
MRD-codes [CMPZ18, GZ19].
MUBs [Kar16].
Muir [dCdSA15].
multi [AKPS19, CJ17b, KAPS20, XLQC16, Zas16].
multi-dimensional [AKPS19, CJ17b, KAPS20].
multi-hypergraphs [XLQC16].
multi-level [Zas16].
multigraph [McK18].
multigraphs [Gn16, O16].
Multigrid [CDRT17, BDDSC17, BHK16].
Multilinear [An16a, BMVV16, CW16a, BT15, BM17c, CR19a, DGK+17, DKS15, DK16, Feng19, LT16b, Pop16b].
multiple [Ais18b, AM15b, BBT15, BDK+17a, BTN+18, CDMP15, CKM16, DKSV19, LPPZ19, NSCV16, PM15b].
multiplicity [Beh17, CYD19, DK18].
Multiplicative [CGDM16, CL16, MRS15, XSW17, CJZ18, Hii15, Hii17a, MI16].
Multiplicatively [BL18c].
multiplicativity [San15].
Multiplicities [FdFsdV18, Piv19].
Multiplivity [JZ18, ARSB18, BK15, BK16, BCJ+16, CR17a, CPR18, ET16, JDS17, JLD18, JST19, LH17, MQTW18, OS17, Row16a].
Multipliers [JC18, LH17, PQY15].
multisplitting [ZZR15].
Multivariate [CHK17, FD15, Ham19b, HMK18, KRZ+17, KRZ+18, KPRvdO16, LW15, LH17, Lop15, Ruk15].
Murdock [Fik18, FM19b].
mutation [CKS16].
Mutually [BL16, Kist15, Lie18, MB15, Sz16, XX12].

Narayana [AMPT16, Bar16a].
natural [Lie18].
naturally [CLOK13, LMO16].
Near [MOR16a, DL15].
Near-invariant [MOR16a].
nearest [GKS19].
nearly [MOR16a].
nearness [HRN16, NR16b].
necessarily [Mon17].
Necessary [Bar17a, Li15a, LS17b].
negative [FW17, GSZ15, GSZ16, GJK18, JLM18, Koz16, LS19, MM19a, SZ17, TW17, Wol18, Zaj19].
Neighborhood [BSS17].
Nekrasov [OP19b].
nest [CL15a].
nested [AAC15].
network [GZB19, QWW18, Sar19, SZW16].
networks
Neumann, Newton, Neural, Newton, nice, Neip, Nikiforov, nil, nil-clean, nilpotent, nilradical, nilradicals, NMF, No, Nodal, nodes, Noetherian, Noetherianity, Noise, Non, Non-Archimedean, non-autonomous, non-backtracking, Non-bipartite, Non-commutative, Non-derivation, Non-divisibility, Non-existence, non-extendability, non-homogeneous, non-integral, non-Lie, non-modulus, non-negative, non-Noetherian, non-normal, non-odd-bipartite
Li15b, LL15b, LCWZ19, Nik17a, NA17, OP16a, Pet15, Reb19, SPH15, SS15a, Tan16b, WDFS17, XCJ18, Zha18c.

norm/energy [NA17].

Normal

norm/energy [NA17].

Normal

normal [

Normal

normality

[BS15, DD18, DDL17, EG15, GSW16, GMP16a, GMP15, GMP16b, GMP16c, GBRS15, HZ15, VN15, IW15, JS18, JTS16, KMP16, KS15a, LWC18, Lin15b, LL15b, LLH17, Nie18, Nie19a, NL17a, Sh17, SZ23, SG17a, YZZ18, dlCG18]. normality

[FD15].

normalizable

[MS16a].

normalized

[BM17b, CCC+18, BDVRT15, BH16b, BS17a, LS18, MM19, SY17, cSfCfX15].

normal

[AA18-44, BaHOS15, CLF18, DHL+17, ySpW17, Sri17, YG15, Bün17, Bür18, DR15b, GS17a, HHL19, HML19, JL16a, JLDS18, LOS19, Lin15a, Lin19, LL15b, LLT19, MWT16a, MWT16b, PF18, QKP16, RM17, RMS16, TH17, TW17, TW18a, Tom15, TD15, WM17a, WZL15, WWC18, Xu17b, ZLG17, Zim15, vDS16]. numbers

[ABD19, BZ16a, CDR+19, Che18d, DTZ16, DS18b, KM19, Lee15b, ME15, Van17, WYL15]. Numerical

[AOK15, Ano16a, Ball19, BBP19, BMV16, CJK+16, GW16b, GW16, GO18, KLN16, PW18, Sab18, She17, AOK19, AAS18, AM18, AR18, AMR19, AK19, BFA18, Ball17b, Ball18, BFM19, BD15b, CJ17a, CD19, CC17b, CCNT19, CL16, CN15, CNY18, CN19b, CNM19, CJ17c, Dax17, DGP+15, FK16, GW1a, GW1a, GW1b, GL19, GWW19a, HA15b, HNNP15, KS15a, KKP19, KMY15, Krm19, LNT16b, LLPS19, Lee15c, LTWW15, LS18, MR17b, SPBB19, SWZ18, Zua19, Cha15]. Numerically

[PA17, PQY15].

objective [Fay18]. oblique [BB17, BMS15]. observations [Sma15]. occasion [BBF19].

odd

[AA18, BA15a, AL15, Ash19, BL18a, CC17a, CLT15, CUPW15, CW16b, Cox15, DR16, FM16, FdC18, HL19, HHL19, HZ15, IL17a, JL16a, JDS17, JLS18, LOS19, Lin15a, Lin19, LL18a, LLT19, MWT16a, MWT16b, PF18, QKP16, RM17, RMS16, TH17, TW16, TW18a, Tom15, TD15, WM17a, WZL15, WWC18, Xu17b, ZLG17, Zim15, vDS16]. numbers

[ABD19, BZ16a, CDR+19, Che18d, DTZ16, DS18b, KM19, Lee15b, ME15, Van17, WYL15]. Numerical

[AOK15, Ano16a, Ball19, BBP19, BMV16, CJK+16, GW16b, GW16, GO18, KLN16, PW18, Sab18, She17, AOK19, AAS18, AM18, AR18, AMR19, AK19, BFA18, Ball17b, Ball18, BFM19, BD15b, CJ17a, CD19, CC17b, CCNT19, CL16, CN15, CNY18, CN19b, CNM19, CJ17c, Dax17, DGP+15, FK16, GW1a, GW1a, GW1b, GL19, GWW19a, HA15b, HNNP15, KS15a, KKP19, KMY15, Krm19, LNT16b, LLPS19, Lee15c, LTWW15, LS18, MR17b, SPBB19, SWZ18, Zua19, Cha15]. Numerically

[PA17, PQY15].

objective [Fay18]. oblique [BB17, BMS15]. observations [Sma15]. occasion [BBF19].

odd

[AA18, BA15a, AL15, Ash19, BL18a, CC17a, CLT15, CUPW15, CW16b, Cox15, DR16, FM16, FdC18, HL19, HHL19, HZ15, IL17a, JL16a, JDS17, JLS18, LOS19, Lin15a, Lin19, LL18a, LLT19, MWT16a, MWT16b, PF18, QKP16, RM17, RMS16, TH17, TW16, TW18a, Tom15, TD15, WM17a, WZL15, WWC18, Xu17b, ZLG17, Zim15, vDS16]. numbers

[ABD19, BZ16a, CDR+19, Che18d, DTZ16, DS18b, KM19, Lee15b, ME15, Van17, WYL15]. Numerical

[AOK15, Ano16a, Ball19, BBP19, BMV16, CJK+16, GW16b, GW16, GO18, KLN16, PW18, Sab18, She17, AOK19, AAS18, AM18, AR18, AMR19, AK19, BFA18, Ball17b, Ball18, BFM19, BD15b, CJ17a, CD19, CC17b, CCNT19, CL16, CN15, CNY18, CN19b, CNM19, CJ17c, Dax17, DGP+15, FK16, GW1a, GW1a, GW1b, GL19, GWW19a, HA15b, HNNP15, KS15a, KKP19, KMY15, Krm19, LNT16b, LLPS19, Lee15c, LTWW15, LS18, MR17b, SPBB19, SWZ18, Zua19, Cha15]. Numerically

[PA17, PQY15].

objective [Fay18]. oblique [BB17, BMS15]. observations [Sma15]. occasion [BBF19].

odd

[AA18, BA15a, AL15, Ash19, BL18a, CC17a, CLT15, CUPW15, CW16b, Cox15, DR16, FM16, FdC18, HL19, HHL19, HZ15, IL17a, JL16a, JDS17, JLS18, LOS19, Lin15a, Lin19, LL18a, LLT19, MWT16a, MWT16b, PF18, QKP16, RM17, RMS16, TH17, TW16, TW18a, Tom15, TD15, WM17a, WZL15, WWC18, Xu17b, ZLG17, Zim15, vDS16]. numbers

[ABD19, BZ16a, CDR+19, Che18d, DTZ16, DS18b, KM19, Lee15b, ME15, Van17, WYL15]. Numerical

[AOK15, Ano16a, Ball19, BBP19, BMV16, CJK+16, GW16b, GW16, GO18, KLN16, PW18, Sab18, She17, AOK19, AAS18, AM18, AR18, AMR19, AK19, BFA18, Ball17b, Ball18, BFM19, BD15b, CJ17a, CD19, CC17b, CCNT19, CL16, CN15, CNY18, CN19b, CNM19, CJ17c, Dax17, DGP+15, FK16, GW1a, GW1a, GW1b, GL19, GWW19a, HA15b, HNNP15, KS15a, KKP19, KMY15, Krm19, LNT16b, LLPS19, Lee15c, LTWW15, LS18, MR17b, SPBB19, SWZ18, Zua19, Cha15]. Numerically

[PA17, PQY15].
operators-valued [FS19b, HJ19, Zam16].

Operators [AR15b, DIR16, MMS16, W´oj15, AB19, AAM15, AO18, And15, AAC17, AG18, ANAPSR17, ABGR+18, AG15b, AG20, BFA18, BF18a, BG15, BLPT15, BŠŠ18, BBSS18, BDRC16, BMN16, Bob16, BT15, BM17c, Bou16a, CDMP15, CEM15b, CEGM16, CPZ16b, CDRT17, CMM19, DS19b, DSCD17, EE16, EJ17, EM15, EHH17, EHL18, FPGPV17, FKPS18, GPS16, He16b, HA15b, HK17, JLM18, Kim18, KL19b, KMS17a, KNR18, Lee19a, LTWW15, LWC18, Lju15, LD17c, LMX19, MS16b, Mat15a, Min17, Mol19, Nag15, NINS16, Nie15a, Nie15b, Pan19a, Pan19b, PSG16, PSM18, PMW19, PCI15, Pep17, Pie18, PPZ19, PR18b, Pop16b, PRS18, Rao17, Sab19, Sam17, SST15, Tur17, Vir16, WFS19, XF17, Zam19, Zem16, ZH15].

Optimal [ANAPSR17, CCO15, CFM16, GMP16a, Hon18, DDSC+16, Had17, iHS16, HK19c, JIMPS18, La16, LCF19, MRS15, NAS18, Sma15, WC15]. Optimality [Fas19, Li15a].

Optimization [DH15, BA15, FS17b, FM17, Hill15, Kri15, Kur19].

Optimizing [BDSC17, DeV19].

Optimum [GW17b, CLZ16a]. OPUC [MS15a]. orbit [IKVZ18]. orbits [BC15a, LNT16a, Lau18, MM15a, MBB+18].

order [ABO15, BP16a, BGV17, BBMF17, CFNP17, DV18, DY15, DFM17, DD17c, GM15, GL17, Gao18, GH16b, GS15, HA15b, JKS15, Kar16, KH17, LS15a, LZ15a, LUC19, Lom17, PCI15, PM15b, PS15, PPZ19, SY16a, SL16, Shi19, Sug17, TH17, WZ17a, XSW17, ZWS18, dCF17]. orderability [BS16e]. Ordered [HW15a, CKS16].

Ordering [YSS16, BOT19, LLS17a, LLS17b]. orderings [IKR16]. orders [AB19, BMGP15, CIMW15, ET18, Mos17, RD15, WL16]. Orientation [HM16]. orientations [COvdD16]. Oriented [Ref16, AdlPR16, CRRY15, CL15, CL17a, CLR+18, DR19, HMT19, LHL18b, MWT16b, RS17a, WF19, ZXW19]. original [BS18c].

Orthogonal [Lin15b, Pan16b, War17, AM15b, BG17, BF19b, BL16, CRX15, CG15, CJ16a, DEH16, DMQ19, DSCD17, DH19, FS17a, GGMPC15, GMP16c, HZ17, IR19, Jin15, LNT16a, LUC19, Mac18, MP18, Ota15, Riv15a, Riv15b, RAAGA16, RMP18, SNDM17, SJD16, Shi16d, Sim17, WQH19, ZS17, ZGW16, dCF15, cSJC/X15].

orthogonalities [Wój19]. Orthogonality [GSP16, AR15b, ABR18, CSW17, HHJM15, KL19b, KZ17, PSG16, PSM18, PMW19, SPH15, Tur17, Zha18b].

optimally [CW18b]. orthoplex [BH16a]. oscillation [EH18].

Oserman [NR16a]. Ostrowski [Nie19b].

other [CFW15, EA17, GSW16, KL18a]. outcome [LT19a]. Outer [BJKR17, BKN18, LHC15, Shi17a, SSH15, SZW16]. output [Bel16, NN19b]. outputs [LPFPZ19].

overdetermined [BW19].

packet [Far16].

packing [Gu16, LLT19].

Padé [PW18]. pair [BMS15, BGSS18, FHH15, Nom16, WHG17].

Pairs [SJD16, BGV17, BHSS18, BKS15, BKP23, DdFR16, Dmy16, Dmy19, GMM16, GMM19, Lyn15, Mor17, NS15b, Nom15a, Nom15b, NT17, Ram16, RB16, SGG16, wX1MZL19].

pairwise [MC19]. palindromic [DDMP19].

PARAFAC [KL18b]. parallel [KH17, SdJY16]. parallelepipeds [Bil19].

parallelism [Zam16]. Parallelogramic [LMP+17].

Parameter [AL19b, Zha15c, Eh18, Fik18, FM19b, Gil16, KOST15, LMR16]. Parameter-invariant [Zha15c].

parameters [ACRR15, ACD19, BPZ17, HLW15, Ken16, KRZ+17, LHC15, Mic16, Wan16b].
parametric [HS19b, RW17].
Parametrizing [And15]. paraorthogonal [Cas19]. Parking [MY16]. Parseval [KAPS20, AKPS19, MBB+18]. part [DU16a, DMQ19, KLY18, LNW17, Ter17b].
Parter [BEF16, JS18b]. Partial [CIMW15, FG16, RD15, WL16, WZ17a, BS15a, BC19b, Cho17a, Eld15, FX19, GS17, Mel19, Shi19, aHRT15]. partially [BW19].
partite [KNY15]. partition [GK15, JZZ18, NS18, WDFS17]. partitioned [Hir18]. Partitions [CC19, CDG16, RNC17, Abi19, ARSB18, CD16a, Col19, dS18a]. parts [MMS16].
Pascal [KT17, Zhe19]. Pascal-like [Zhe19].
passage [BK17c, Hun18a]. Paterson [Fas19].
paths [LN17, NR18, PS19b, YDYY18, ZLG15].
pattern [BES16, BWSZ15a, KSVW17, LP15, LT19b, OS17, SUY16, VQ17, VQ19].
patterns [BOvdD17, DB19a, EKSV14, EKSV18, FGG+18, FGH+15, GL16a, GLZ16b, GL17, Gao18, GM19, HZ15, LOvdD18, Liu18, MM17b, OvdDV17, Shi17b, Stu17]. Pauli [AMC18, RZ17, Sam17]. payoff [EW19].
Pellet [Mel16b]. Pellet-like [Mel16b].
pencil [AHV19, Rin17]. pencils [BGT+19, BR16a, BDP+18b, DA19b, DA19c, DDL17, Dod16, Dod17, DHW18, dMG19, HY18, NP15b, PD17, Sch17].
pendant [CPR18, PS19b]. pendent [NR18].
terrible [BKLP16]. Penrose [AB18, CGMS15, CGDM16, HWZ15, KB15, Nor18, WX16, XW17]. Penttila [BM19a]. per-nullity [WZ15].
Periodic [Yam15, Ban16, Bre18, Fre18, GM15, SSF16, YSZ17]. Periodicity [KSTY18, MdIP16, KSTY19, Vas15].
peripheral [ZH15]. perplectic [CCW18]. permanent [CC18, GT18, Hut17, Liu17, Shc16, Shi16b, dS19a]. permanent-on-top [Shc16]. permanental [dS18a]. permanents [CP16b, CLLS19, KK17, Roo19, Sbu17].
Permutability [CI15b, CI15a].
Permutation [DF15, DF18, Ouy17, AJL16, Dah15a, TC15].
Permutation-invariant [Ouy17].
Permutation-like [DF15, DF18]. permutative [FT19]. permuting [Sim17].
Perron [AG16, ACD19, FK16, GH16a, JP16, Lia17, LT19b, Tar18]. Persymmetric [JS15, SJS15]. Perturbation [CL19, GM17, GCQX15, JGW17, SZZ3, Sku17, AG17, CR17b, CGDM16, JLT17, JZ16, KR17, LWY16, MM16a, OVV18, PM15b, SK17b, cSFCX15, Wei17, XL18, Xu17b].
Perturbations [CEM15b, XS17, BLPT15, BM19b, DFK+15, DV18, DV19b, Hun16, MS15a, MRS15, SV17, WHC17, XSW17, wXjMZL19]. Perturbed [CFP18, GHT16, Run18, RB19]. Perturbing [WLP16]. Petersen [COvdD16, KMM17]. Pfaffians [EW19].
Pickard [BFN15]. piecewise [GBRS15]. pineapple [TSH16]. pivoting [PZ17b].
pluripotential [Wan19]. plus [BR16b, BDS15, DS19b, EHN16, Hoo15, Hoo19, Li19, Mys16, RLP19, Shi16b, WT18, ZD15].
Poincaré [AL16]. point [Bai18, EP18a, FGG+18, FG17, Had17, KLL16, KLW16, KLW18, Kur19, LMS16].
LSM18, RR18a, WMC15].

**point-hyperplane** \( \text{[FGG} + \text{18].} \)**

**points**

\[ \text{BDG15, BDM18, CN17b, Eve18, FL16, HLM17, HMPT18, Jel18, KLW15, NAS18, Rao17, WWT18]. \]**

**polar**

\[ \text{De 16a, FX19, GMP15, GMP16b, Pan16a, Shi16a, Sol19, SG17b, dICMP17b]. \]**

**Polarity**

\[ \text{Sol18a].} \]**

**poles**

\[ \text{PW18].} \]**

**poly**

\[ \text{RT16].} \]**

**P´olya**

\[ \text{MF16].} \]**

**polyadic**

\[ \text{DD17c}.] **

**polygons**

\[ \text{HMNP15, VG18].} \]**

**polyhedral**

\[ \text{SPBB19].} \]**

**Polynomial**

\[ \text{KS15a, RLP19, SS16, DDMV16, VT18, Win16, YT16, AMR19, AGS17, AP15a, BY19, BBdH16, BBdH18, Ben18, BLdSV19, BR16a, BV18a, CJRMF} + \text{15, CK15a, CLQW17, Che18a, CFD19, Cox15, DMQ19, FJ18, FJM18, Fio16, GK15, HWZ15, KPL18, KMS17b, Lie18, LW15, LL18b, Mel15, MMW17, NN19b, Shi16f, VV18, WW18, WZ19, YdL19, dB19b, dLMP18]. **

**polynomials**

\[ \text{AO18, ABG16a, AMZ17, ABD19, AEV15, AM15b, BGV17, BJS19, BB16b, BDFR15, CDR} + \text{19, CW18a, Cas19, CG15, CM18, CCGO17, CCGV} + \text{19, CK15b, CJ16a, CMK16, Cin15, CP17, CW16a, DA19b, DDMP19, DP18, DD17b, Dmy17, DD18, DPV19, DK16, Fag19, Fas19, FS17a, FS18a, FM19a, FK16, GGMP15, GIM16, He16a, HK19a, HY18, HZ19, IR19, KM15a, KPL18, KMM17, Lee16, Liu17, LM16a, LMR16, MO16, MP16a, MW15, MNTX16, Mel15, Mei16a, Mei16b, NS19, Niv15, Ota15, Ouy17, PM18, PP18, Ple17, Re1b, Riv15a, Riv15b, RV18, SAs18, Ser16, DDMV16, Tya17, WLWZ19, Yan15, Yan18, Zem16]. **

**polyominoes**

\[ \text{CEM15a].} \]**

**polytope**

\[ \text{CC19, HLM17]. \]**

**polytopes**

\[ \text{AK17, Fer15, GSS15, JKK15, KJ16, NT18, SS19, War17, WH19b]. \]**

**Poncelet**

\[ \text{CN15].} \]**

**Popov**

\[ \text{RRV15].} \]**

**Popoviciu**

\[ \text{BS15d].} \]**

**population**

\[ \text{DOR16, HvdD16]. \]**

**posed**

\[ \text{BB18].} \]**

**poset**

\[ \text{FI19b, Liu16b, Nag19, NS19, Ter18]. \]**

**posets**

\[ \text{CX17, GSZ15, Gas19]. Positive} \]**

**positive-definite**

\[ \text{ACM17].} \]**

**positivities**

\[ \text{Xu16].} \]**

**Positivstellens¨atze**

\[ \text{KVV17].} \]**

**possessing**

\[ \text{SSH15].} \]**

**possible**

\[ \text{BaHOS15].} \]**

**posteriori**

\[ \text{Fis17].} \]**

**potence**

\[ \text{Stu17].} \]**

**potent**

\[ \text{SR18, Stu17].} \]**

**potential**

\[ \text{CDFK19, Fay18].} \]**

**Potentials**

\[ \text{DMS16].} \]**

**potents**

\[ \text{XFZD17].} \]**

**Poupard**

\[ \text{FHS17a].} \]**

**Power**

\[ \text{Lee16, LYY17, BV18a, CJS16, CM19, DD19, DKS17, DF15, DF18, DDF17b, FuIK16, GH16a, HNS15, JZZ18, KL15, LG18, MG18a, TCD15, UWYY15, VB19, aHRT15]. \]**

**powers**

\[ \text{BGKP19, Ege16, FJS17, FJS21, GW19b, GW19a, Ja17, Mag16]. PPT} \]**

\[ \text{Car17, Lee15a}. \]**

**pre**

\[ \text{Mos17]. \]**

**pre-orders**

\[ \text{Mos17]. \]**

**precoherent**

\[ \text{DD16b].} \]**

**Preconditioned**

\[ \text{VK16, BT17a, BA15, Miz16].} \]**

**preconditioner**

\[ \text{Bai18].} \]**

**preconditioners**

\[ \text{Hon18, LSM18]. \]**

**preconditioning**

\[ \text{AL19b, DDSC} + \text{16, NSCV16, RMK18]. \]**

**predictions**

\[ \text{KÔ16, ÕK18]. \]**

**Preface**

\[ \text{BFH} + \text{17, BDIM15, BBF19, CFH} + \text{16, DLW15, FLV18, GPW15, GHPS19]. \]**

**preorders**

\[ \text{BES19].} \]**

**preprocessing**
prescribed [APS18, BL18b, Bal15c, DS17b, HK18b, KPL18, SJS15, WYL19, YZLC18]. presence [GLMS18]. preservation [CYD19, MR17b].

Preservers [Ben15, BBS16a, BBSS18, CLP16, EP18b, Poo15, AMR19, AEV16, BS16b, CCN18, CL16, GW19a, HSS16b, LL17, LCLW18, LD16b, LD17b, NA15, Oik19, ORE16a, Ore16b, dSP19a, dSP19c, Riv15a, SdJY+16, cSRCX15, SW18b, Ste15, SS17b, Tan16b, VB18, Wei15, XL18, Yua16, ZLQ16, BDM18, ES16, VF17].

Preserving [STZ15, AAM15, AR15b, BN17, BM15, BL18c, BMGP15, Bur15, CPZ16a, CHK19, CC17b, CV17, Cos16a, Cos16b, Cos19b, Dmy17, DiC16, EJ17, EM15, GJK18, HF18, HYH15, HM16, HLS+16, KP17, KM16, KLS17, Li15b, LLL17, MS16b, MS15b, MPV16, Pan17, Pan19b, Pet15, SdJY+16, Vir16, Wój15, Wój19, XFZD17, ZH15, Zha18b].

Press [Bar15]. pressing [CD16a]. Primal [Fay18, RR18a].

Primal-dual [Fay18, RR18a]. primary [FI19a]. prime [DD16a, DD19, DF15, VB19]. prime-power [DD19, VB19]. Primitive [BS16b, CLN15, FG5+16, HY15, SG16, YHY15]. Principal [Bil19, LZB18, ÖK18, BC15b, BCF+16, DdSJDdDV15, FOvdD16, Gas19, HR17, HJ16, LKY16, Miy19, RKT15, Ris16].


probability [GCQX15, KL15, LZ15a, Lie18, SY16a].

problem [AO18, ATM18, AA16, ACM17, ACE15, BZ16b, BR19, Bel16, BF17a, BP19b, BC17b, BC16b, CW18a, CJ17a, CI19b, CGM16, CL17a, CL15c, CI15a, CQ15b, DM16b, DS18b, Dd17, DE15, DN16, DN18, FPGP17, FK17a, FK17b, FMS18, Geh15, Gil16, GSI18, Had17, Hill15, IR19, JP16, JMP17, JP18, JS15, Lee15c, LL17, Ma15, MPS17, Miz16, MS16c, MK18, NMBA19, NN19b, dSP19b, dSP19c, Piv19, PS19e, Pud16, RMKJ18, RKT15, Riv15a, SdJY+16, cSRCX15, SW18b, Ste15, SS17b, Tan16b, VB18, Wei15, XL18, Yua16, ZLQ16, BDM18, ES16, VF17].

problems [Ais18a, Ais18b, BT17a, Bal15b, BP16a, BB18, BMS16a, BGCM1SSS16, BCA19, CLQW17, CFNP17, DHW18, EH18, Fay18, FKPS18, GM15, GM16a, HJ16, HPZ18, Hoo19, HZC15, HNR16, HL19a, IK18, JLD17, KU16, Kri15, LQZ19, LLL17, LDL18, Mat15b, MP18, MT15, NN19a, NS15a, NR16b, SLY17, STZ15, Van16a, WZL17, WLL19, XXZ16, wXL14, wXZ19, Yin19, YHY15, YSZ17, ZHC16, ZD15, ZZR15, ZC15].

procedure [FKRS17]. Proceedings [CFH+16, GPW15, FLV18, GHPS19].

process [CG15, CLM19a, DHLT19, Lin16a].

processes [CLR19, EHHL17, EHPV18, Hun18b].

Procrust [AA16]. Procrustes [BC19a, GS18]. Product [BS15b, HN18, LPW16, AAM15, ABM18, AGQ19, AMV17, AL19b, BK19, BM15, CPZ16b, CF18, CJ18, DD17a, DiC16, EH15, FZCW16, FK18, FS19b, GW16b, HJW19, HL17b, Huh15, KH16, LTWW15, LHC15, Mag16, MSSZ17, Pet15, SWB19, Sod18, SG17a, SG17b, WW18, YLB15, ZD16b, dClC15, dClCdR17].

Products [AG18, Bot16a, CLS17, GS15, dClCG18, AJL16, BR15, BBMF17, Ben15, BBS16a, BBSS18, Brc17, CQ15a, CHK19, CLKL17, CL16, DGVS17, FJS17, FJS21, F16, GW16a, GW17a, GL19, GF17, GX17, Hill17a, Hill18, HLZ17, Hou19, Hou20, SS16b, IKW16, KKA15, LL17, Lot15, MX16, PP18, XCF18, XFD17, Xu17a, ZH15, Zhi18c].

Profiles [CKS16]. program [Li15a].

programming [BT17a, Fay18]. programs [CJ17c].

Projection [BFN15, CVV19, SXD16, BKLP16, CYD19, Col19, CFNP17, DY15, FJP15a, FG17, LNT16c, Miz16, NZZ15, NN16, Pan15b].

projection-cost [CYD19]. Projections...
Projective

Prony

Proof

Proofs

propagation

proper

Properties

Pseudo

Pseudo-direct

pseudo-Euclidean

Pseudo-inverses

pseudo-partition

Pseudo-skeleton

Pseudo-spectra

pseudo-orthogonal

Pseudopolynomial

Pseudoregular

pseudo-tensor

Pseudosymmetric

Pseudosymmetric

Pseudotensor

Pseudosymmetric

QBD

Qing

QR

Quadratic

Quadratically

quadrature

quadrifocal

quaternion

quaternionic

quaternions

qubit

qudit

Questions

Quotient

Quotient-polynomial

Publishing

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Racah

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Radius

Radius

Radius

Radius

Radius

Radius

Radius

Radius

Radius
LHX18, aLwW15, LLZ17, LWCL19, LM16c, LHH17, MMM19, Mol18a, Mor17, Nik17c, NLW18, NLWJ18, Obo19a, Obo19c, PS19b, Pep17, PV17, Sab18, She17, XSW19a, XS18, XLLS18, Zam19, ZLG17, ZLKB17, raising [Ter15]. Ramanujan [CV17, DTZ16, San15]. Randić [AdFRR18, BM16a, GRS15]. Random [OVW18, PQY15, B´SS18, BB16b, DMS16, DE15, GJLS16, HLLZ17, Hua19, LLH17, Liu18, OBRA15, PSZ15, RR18b, RJK18, Ruk15, SH15b, XL18, Yasi16]. Randomized [NZZ15, BW18, BW19, BDK +17b, CYD19, PZ17a]. Range [ACM15, dSP15, dSP16e, AAS18, AMC18, Bal17b, Bal18, Bal19, BS19b, CJ17a, CC17b, CCNT19, CN15, CNY18, DF17, FK16, HA15b, Kum19, LNT16b, LLP19, LS18, Rub19, XF17]. Range-compatible [dSP15, dSP16e]. ranks [AR18, BFA18, BD15b, CDM19, CL16, CN19b, CNM19, CJ+16, GWW16, GW19b, GWW19a, HMPN15, KKP19, KLN16, Lee15c, LTWW15, SWZ18]. Rank [BBS16b, DdC16, GS16, Hua15, MV16, AAS18, AAG+18, AMC18, Alf18b, ARSZ15, Al17, Bal15c, BS19b, BLPT15, BM19b, Ber17, BR16b, BS16d, BPS15, BC17a, BA15, BCU15, BWS15a, BC+16, CU18, CF18, CHB15, CJ18, CCO15, Dax17, De 16b, DDL17, DM16b, DJ16, DP17, DD17b, DD18, DR17, EHK16, EM16, FOvdD16, FMR18, FS19a, GH17, GS19b, GdLL17, GCC18, HKM18, HHL19, Hir18, HMP15, HSS16b, Joe16, Jor15, KKP19, KU16, LCF19, LWX17, LW18, LHL18b, MWT16b, Mes17, Mor17, ME15, OW18, PQY15, Pan19b, PS18a, PSS19, PC15, dSP16a, dSP16c, dSP16d, PF18, RSS17, Rub19, Shi18c, Shi19, SZW16, SS15a, Tok17, TW18b, VQ17, Van17, WLY17, WF19, ZXW19, ZM16, Zui17, db19b]. rank/trace [BES19, Shi19]. Ranks [FG+15, BS18b, FGG+18, dMG19, Mat15b, MHN18, SP16, WLV19]. Rao [Rak17]. rapid [PCL15]. rate [BW18, GKS18]. rates [bCR18, JMRV16]. ratio [Bun17]. Rational [CA18, Duk12, Duk15, SSV17, AB16, AL18, AL19a, AMZ16, CM19, CFW15, DA19a, DA19c, DMQ19, EG19, Fas19, FKRS17, JMRV16, JTR18b, RV18, RAAGA16, Van16a, Vol17, WQ19, DBD18]. rationally [KVV17]. Ray [Liu15, LT19b, Liu18, Stu17]. Rayleigh [SK17a]. rays [Dah15a]. re [LC19]. re-weighted [LC19]. Reachability [MP19, PS18b]. Real [BP19a, BS16d, CW18a, DGP+15, FI16, KKP19, Alf18b, AL18, BD15a, BZ16a, BKE18, BS15, BR16b, BS19a, BC17b, BS18b, Bün17, Bur15, CJ16, CJMF+15, Che18d, CL17b, CHB15, DAG16, EE16, GM16b, JP16, LNT16a, LS15b, LDL18, MS19, MM15b, NMB19, NN19a, RE16, RGP16, Se18, SSB15b, TY15]. realizability [CJS18, DDMP19, GM19, HMPT18, JMS19]. Realizable [AM18, MAR17, MN19a, BPZ17, HMPT18]. realization [AL19a, BR19, JRS19, SUB18, DDM16]. Realizing [PT19]. receptance [WZ17a]. Recessive [SH15a]. reciprocal [BPP16, BPP17, PP17b]. reconstruction [BKLP16, BBT15, BS18c, Sc16]. recoverability [WLH18]. Recovering [Col19, RJK18]. Recovery [AB16, DA19c, DA19b, DA19a, FS19a, FK17, KSTX15, LLM16b, LS15c, RSS17]. Rectangular [MO18, BL16, CL15, Hua15, MM16a, YZL+19]. recurrence [IR19]. recurrences [AHO15, EJ19, Grc18, LMR16]. recursions [BF17a]. recursive [ATM18, CLW15, HK18a]. Recursiveness [LY16]. Redheffer [CK19]. Reduced [Pie18, CFP18, Cos16b, MS16b, TH16a]. Reducibility [CN17a, KMOR19]. reducing

semi-infinite [CJ17c]. semi-monic [FK16].
Semi-nonnegative [CHB15]. semi-smooth [CFNP17].
semidefinite [Cho17b, FMY16, FS17b, FG17, GS18, GdLL17, HNS15, KL17, Lin17a, SUY16, Ulu19, Vir16]. semidefiniteness [KM16, NR17]. semifields [GJK18].
series [Bru16a, Bar16a, BV18a, CIY15, CJS16, CD16c, EE16, EJ19, FKM17a, FKM17b, Gar17, HMSC19, JC18, KT17, LM17, MHA18, OZ15a, PW19, PW20, Riv15b, SB18, WZ19, XWL17, ZLS17]. sequential [CR18b].
Sergeichuk [BBF19]. Series [Bru16a, Bar16a, BV18a, CIY15, CJS16, DS19c, Dya17, LG18]. Serre [CQ15b, PR19].
Serrin [ACE15]. sesqui [Bil19]. sesqui-holomorphic [Bil19]. sesquilinear [Wój15, dFRS16, dFFRS17]. Set [SS18, AvdHS15, AvdHS16, BDM18, BGT+19, BGCMBP15, DL17, DdF15, DlS18, Gör17, HYY15, Hillb7, LLP19, LCL15, LL16a, LL16b, LD17b, MS16a, May15, NS15b, SR19, SG16, Tar18, Yor17].
Set-theoretic [SS18]. Sets [BVo17, Kan16, AYK17, ABM16, BM19a, BH16a, BWSZ15b, BJLD17, CR18a, bCR18, DLB18, DD17b, DO16, ELN18, Eve18, GJ18, JG17, Jin15, KL19a, Koz16, Lax16, LL16a, Lin15b, MC19, MB15, MRV15, NS15c, OL16, Pep17, Pol19, RW17, ySpW17, SXD16, Tan16a, YZL+19]. setting [ABC+16b, AS17]. Several [GL15b, GL15a, LCF19, CKM16, Ern18, Ken16, Naj17].
shadow [DGP+15]. Shannon [Nie15b]. shape [VG18]. shaped [HP15]. shapedness [LNT16a, LNT16b]. Sharp [DR18, Ken16, BMGP15, CL17b]. Sheffer [CJ16a]. shell [ABR18, CJ17a, LSZ18].
Sherman [ACM15]. Shift [CV17, He16b, APT17, BR19, BMN16, BS16f, Chuc15, CUPW15, Skr17, ZSQZ19]. shifts [KY15, KY18, LY16]. Shmu [Tsa16b]. Shoda [SB15]. short [BP19a, Bün17, MC19, May15, Mic16, SS17b].
sign-real [Bün17]. Signal [Per18, PHW16]. signals [KKLP17]. Signature [MG18a, HS19a, MWT16a, PR18a]. signatures [Ma16]. Signed [AHMM18, BZZ16c, BBC18, WW18, YYQ19, ASMN17a, ASMN17b, ABDN18, ABH+19, AvdHS15, AvdHS16, AH16, Bah19, BS15c, BP15, BS16, SP18, CR15, HHL19, LZW18, RS17a, RS17b, SS16, STW18, STW19, Sta19, WH18].
Signless [GCP18, HL19a, ACP15, ADLR19, CR17b, CcdIPv18, DsSDdFDV15, Ds15, DM16a, IFwW16, FWB+19, GR17, HQX15, LD16a, LZ16b, LZW17, LLS17a, LLS17b, LL16a, MM19b, NLWJ18, Obo19c, TWR15, WZZ19, WZL15, XSW19a, 42.
Soules [Hür15]. South [CFH+16].

space [AM19, AL19a, BCKL17, BGCMPP15, CCW16, CGL16, CMM19, DY15, DdFR16, EE16, FJM18, HJW19, HL17a, JMP18, Kim15a, KL15, Ku15, Lee19a, LNW17, Liu16b, Mag16, OZ15b, PSM18, Pop16a, Sab19, SG17b, WG15, Zam19].

space-filling [BGCMPP15]. Spaces [BM17c, EM16, AGQ19, BFA18, BF18a, BS18b, Bil19, BHS18, BDFR15, BO17, CR19a, CG19b, CDFK19, CFW15, CSW17, CG19c, DA19a, De 16a, DdFR16, EE15, EM15, ET18, FzwCW16, FS17a, FS18a, FPGPV17, FG16, FKPS18, GMP16a, Gol17, HW15a, HHR16, JC18, KL19b, KS15b, Mar18, MSS17, Mes17, MM17c, MRV15, Mol18b, Nag15, NP15c, Pan17, PMW19, PR18a, Pci15, dSP15, dSP16a, dSP16d, dSP16e, Rao17, RT16, SPBB19, Shi16c, SG17a, VF17, Vir16, WH19a, Wol18, XS17].


Specht [FHS17b, dSRST17]. Special [DLW15, SS15b, Zus17b, ABGJR +18, BBF19, Ern18, LNT16a]. specified [KM15a, Nom15a, ZLG15].

Spectra [BCM17, CCdFV18, DR19, LJK16, VHB18, AAB+16, AJO15, ACFR15, AB17, AH16, BW16, BR15, BS17, BCC+18, CLQW17, CJ518, Cos16a, Dal17b, DS17a, DM15, GF17, JLNR15, JMP17, JRS19, JMP19, Kan16, KHI16a, KHI16b, LXS18, LS18b, LHL18a, MAR17, MN19a, NPRS17, PT19, SY17, Shi17b, SS15c, WHC17, XS17, ZL15a, ZL15b, ZKS17].

Spectral [ACT16, AO18, AyLPS18, ABDN18, AEV16, AL16, BL18b, BP15, BOT19, Ben16, BBC+15, BS16f, CGSC19, DLM15, DHW16, FCLP18, FZL+17, Fik18, Gu16, GJLS16, HT17, HMT19, JG16, JG17, LN17, LZ17a, aLwW15, MHL15, MM16b, MHS15, Pea15, SZH19, ZLG15, BL18a, Ba18, BF18a, BG15, BBS16a, BTN+18, BJLD17, Bin17, BS18c, CM17, CL17a, Che19b, Cj17d, DV19a, Dru19, DvSW18, EJ17, EH15, EH18, EB17, FuIKT16, FBH19, FT18, FCL+16, GH19, GJ18, GMO19, GMW18, GZ18, HvvdD16, HvvdH16, IJ16, HMSc19, HLLZ17, HSS16a, JI16a, KNY15, Ken16, ulKF15, KIS18, Koz16, LS15a, LzB18, Lia17, LZ15c, LZ16a, LZ16b, LZM16, LZW17, LHX18, LXS15, LLS17a, LLS17b, LZSD17, LZSD18, LWCl19, Lot15, LM16c, LHH17, Mel19, MIM19, Mol18a, MM15b, Mor17, NMB19, Nik17a, Nik17c, NLW18, NLWj18]. spectral [NSCV16, Obo19a, Obo19c, OQY17, PS19b, PS17, Pep17, PV17, Sim18, Skr17, TWM16, TSH16, Tsj15, WM17b, WZ15, XSW19a, XWL17, XD18, Xs18, XLS18, Yin18, YSS16, ZLG17, ZLKB17, Zhai18c, dIPJG18, CRC17, CJKM19b]. Spectrally [GM19, KSVW17, MM17b, OvdDV17].

spectratopecs [JP16]. Spectrum [Chu19, AAM15, ABM18, AP15b, BDMB19, BM17b, BE15, Ben15, Ber18, BSMSZ19, BM15, BL18c, CM18, CX17, CW18b, CJ17d, Gil16, Hua19, JZZ18, KL18, LTWW15, LD17a, LS17b, LN18, MLMW15, Moh16, MK18, MP15a, Nik17b, SSB15, YSSX19, ZH15].

spectrum-preserving [BL18c]. sphere [Tan16b]. spheres [Che15a, Jia15].
[BDK*17a, DKS19]. subsemimodules [ySpW17, Tan16a]. subset [ABG16b].

subsets [AJ19, DHS18, NP15c, Shi16d, Vij15].

Subspace [Zas16, BBEE19, BMS16a, BS19a, DdFR16, GR16, MMR16, NS18, Ram17, Sch16].

subspaces [AW15a, AW15b, Bal15c, Bal19, BB16a, BEKS17, CFP18, CJW19, FMM16, Huh15, MOR16a, MMR17, MMR18, NNS16, Pan15b, RMP18, SK17a, TLL15, WG15, WZL17, XS17].

substochastic [CC19, Lju15].

subtle [RWH17].

subtournaments [MS17b].

Successful [CD16c]. such [CLT18].

Sudoku [War17].

Sufficient [LSX15, PM15a, Bar17a, ES16, Li15a, MPS17].

Sugeno [Mar15b].

suggested [NR16b].

Suleimanova [PT19].

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summation [JKP16].

summing [CDMP15].

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Sunder [Lin15c].

Superadditivity [UGU15]. superalgebras [CCW18, Iop18, LL19, RZ17, WZ17b].

superdiffusive [EHHL17, EHLP18].

supereigenvalue [Ser15].

supereigenvalues [But16].

superinvolution [Iop18].

superinvolutions [GIM16].

supermajorization [LD17c].

Superregular [ANP16].

superstability [IT18].

superstochastic [LD17c].

supertail [NS18].

supertrees [XWL17, XWD18, YSS16].

supertropical [IKR16, Niv15, Shi16f].

support [BP19a, Hili17b].

supported [AKPS19, KAPS20, MS15a].

supporting [Pan15b].

Surjective [YL17].

survey [Dal19].

SVD [GM16b, GCC18, PS19d].

SVD-based [GCC18]. switching [BMS19, ETF18, Gre18, IM19, Moh16, WQH19].

Sylvester

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Sylvester-based [RMK18].

Sylvester-type

[DI16, DI18b, Wim16].

Symbolic [Sim19].

symbols [BGM+19, BBGM16, Lee19a].

Symmetric

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symmetrically [BF19a].

symmetries [BFW17, FSSW17, FSW19, GS15, LCNZ19, dICMP15, dCdR17].

symmetrization [Rad17].

symmetrized [HMSC19].

symmetrizers [DU16a].

Symmetry

[PMW19, AH16, FK18, TC15, Tur17, dSRST17].

Symplectic

[BBHSS18, AM19, BF19b, BR17, CG16, DR17, DH19, EH18, HL18, IGW17, RMP18, SH15a, S223, WG15, dIC15, dC16, dICMP17a, dCdR17, dC18].

symplectic/orthogonal [BF19b].

synaptic [FJP15a, FJP15b].

synchronous [ZZR15].

synthesis [BZ16b].

system

[ BTN+18, BB16b, GKS19, Hoo19, WZ17a].

systems

[AAdFS19, BW19, BPZ17, Bel16, BTN+18, CC16, CHASSSG15, CDG16, CNX17, CR18b, CL15c, CJ16c, CJ16d, DGCC16, 46]
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Tangent [Kut18]. TarSKI [DP15a]. Taylor [DR16, JLM18, SZ19]. TD [Nom15b].
technique [Row18]. techniques [BK16, KS19, RW17]. technology [SSCS16].
Ten [CRS15]. Tensor [CJZ18, GH16a, KKA15, BL18b, BJS18, Bre17, CPZ16b, CLQW17, CF18, CKL17, DH15, DdC16, FuIKT16, GL19, GZB19, dMGC19, GCC18, Hil17a, Hu15, HSS16b, Kuta18, LL17, LV15, LL16c, RSS17, Sar19, Sch15, Shi18c, Sod18, Van17, WDFS17, XJC18, XFZD17].
Tensor-tensor [KK15]. Tensors [ARSZ15, YLB15, BS15d, BWSZ15a, BWSZ15b, BJLD17, CLQW17, CQCZ19, CW15b, CW18b, CLN15, DLB18, DLQ18, Dd17c, FBH19, FGS19, GH16a, HYY15, HWXC15, JZZ18, KSBM15, KLN16, KL18b, LS15b, LL15a, LQL15, LCL15, LL16a, LJJ16, LUC19, MS17a, NR16a, OP19a, QWC15, Sei18, SY16b, SWB19, Tsu15, XLQC16, Xu16, XQ18, YZL19, YYQ15, YHY15, ZSWB16, dSRST17]. term [De 16b, dMGC19]. Terminating [Kwo16].
terms [DGCC16, IfWw16, HHL19, LWZ18, MWT16b, TWM16, WM17a, WF19, WWC18, ZWS18]. ternary [CN17a, De 16b]. Terwilliger [GGH15, GK15, MMP16, Mor16b, MX16]. tesselable [HPSS19, KIS18]. Test [CILL16]. th [Guo19, LG18, YG15]. their [ABP15, AJ919, Ball15c, BKNS17, Bar19, BCC18, BSMSZ19, BDS15, BM17c, BC15b, CR19a, CM16, CR15, ÇMP18, CI15, CHK17, CJ18, DGGP18, DLQ18, DdFR16, DH18w, FGH15, GL15b, HT18a, He16b, HS17, He18, HC16, KHI16a, KHI16b, LTWW15, Lin19, MW15, MLW15, Mas17, MO18, Mor16b, Niv15, PSZ15, PS17, PHW16, RFPS18, Riv15b, RGPH16, SKC18, SC17, Ter17a, Ulu19, WYL15, Xu16, Yan18].
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Tuples [PS19c]. turns [EV15]. Twenty [GHPS19]. Twenty-first [GHPS19].

Twisted [AGP+17, CH19, TZ19].

Two [FJP15b, HAWM16, HLSP17, LT19a, Obé16, QWW18, TNK16, XXZ16, Alf18b, ARSZ15, AL19b, BG15, BOGY15, BBH16, CVV19, bCR18, CF18, CS18, DS17a, DF18, DdFR16, DSCD17, DR17, DHW18, FKPS18, GSZ15, GSZ16, Geh15, Gil16, GMP16c, HKLQ16, HS19a, HN18, JKKL15, KS17, Kis15, LS17a, LPW16, Lin16c, LDZ18, LMX19, MM17a, MP18, PC15, Riv15b, 1017, iT16, WW18, WH19a, XWD18, XX12, XvdBvdLS15, ZHCl5, dB19b, EHLP18].

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two-distance [BGoy15].

two-level [MP18]. Two-player [LT19a].

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types [EEV17, SY16b, Sim18, TNK16].

typical [BS18b].

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Unimodularity [MB18].

union [CHJM18, WM17b]. Unions [BES19, LS17a]. unipotent [KLS19b]. unique [KL18b, LOvdD18]. Uniquely [Sma15, Sku17].

Uniqueness [DI16, Lee15c, Bal15b, DIPR18a, DIPR18b, DD17c, SZ19, ZC15].

unit [Cas19, IR19, LW17, MS15a, Tan16b].

unital [AHV19, CW10a].

Unitaries [Sim15].

Unitarily [KMS17a, JLM18].

Universal [Sma15, Sku17].

Universality [CGK+17].

University [Bar15, GHPS19]. unsolvability [HR16].

update [PS19d]. updated [BCU15].

Upper [ARR18, AGRR16, bCR18, GRS15, LZM16, MS17b, WF19, Yan16, AM19, BG15, BFD18, Bou16b, CXLF16, CLF18, DR18, DHW18, Ere16, Fag19, KY17, Moll8a, SP16, UG18, Wan15a, WMC15, WHC17, Xu17b, YZL15, ZWS18].

Using

Xiao [Bru16a]. Xiao-Qing [Bru16a]. Xingzhi [Zha15a].


Zero [ALH15, BDDO16, Gao18, Lin19, TD15, AJPS16, BES16, Ben18, BOvdD17, Bot16a, Bot16b, CW18a, EJ17, FMY16, FWB+19, FGG+18, HLPS19, Hii17b, HL19b, KL19a, Lin16a, MM17b, MS16c, Nom15b, PM15b, Ram16, Shi16g, Shi17b, SW18a, Wan15a, WMC15]. zero-diagonal [Nom15b]. zero-divisor [Wan15a]. Zero-nonzero [Gao18, BOvdD17, FGG+18, MM17b, Shi17b]. zeros [AO18, BBP19, Cas19, CMQV16, HK19a, PW18]. zeta [DM15, KMS16, KMMS19, Som17, TH16a]. Zhan [Zha15a]. Zhang [QWW18, UZ19]. zigzag [DDMV16]. Zusmanovich [LCWZ19, ZLLL18].

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<table>
<thead>
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182


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226
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289


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