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Title word cross-reference

3×3 [CLW22]. 4 [Ere21, TCC21]. 4×4 [CRSY22]. 5 [JMP21b, TCC21]. 6 [ZWF20].
* [CAEH⁺22]. α [CLM22]. A [CLM22].
 $A(R, S)$ [FdCP20]. $a_2 - c_3$ [IKPR20]. A_α [CLM20, FW22, LQ21, LMG20, LDSS20, WWT20, WFGT20, XWT20, ZZ21, ZHW21].
 α [CDG21, DLVV21, LL21c, TCC21, WSW20, XWT20]. $\alpha(M)$ [FQ20]. * [AG15, AG20]. [Mor22]. c [GS21a]. C^* [CMM20]. C^n [EJL20]. C^* [CN20a, Ham22, Sin21, XY20b]. C_2 [RT21]. C_5 [MLH22]. C_6 [MLH22]. \mathcal{T} [CN20a]. D [KP21, Zha21, vED22]. D_n [Sim21]. ℓ^∞ [FISW21].
 $\eta(G, \sigma) = |V(G)| - 2m(G) + 2c(G) - 1$ [LW21d]. $F_{q^6} \times F_{q^6}$ [BCM21]. G [CDD21, CL22, GG21, AAMR20, ZWT21]. $\text{Gr}_3(C^6)$ [HPSZ21]. H

$(0, 1)$ [Loe21, Shi21c, DGS20]. (α, β) [SWW22]. $(Au, A^r v) = (u, v)$ [BKS⁺21].
 $(Au, v) = (u, A^r v)$ [BKS⁺21]. (∞, ∞) [GOZ21]. $(k + 1)$ [OdFVM21]. $(n + k) \times n$ [BDNO20]. (n, m) [GZZ21]. (p, q) [AdST22].
 (t, t) [HW21b]. -1 [ZW22, BD21b]. $\{-1, +1\}$ [AdL21]. -3 [LLL22]. 0 [ABW22, BD21b, CHY20, HL20, Lyu20].
 $\{0, 1\}$ [WW22]. 1 [ABW22, BD21b, CHY20, HL20, KLR22, Lyu20]. $1/2$ [GK20].
 $12 \leq \alpha \leq 1$ [LQ21]. 2 [Alf20b, BS21a, Ban22, BEF20, BDV21, LNN⁺20, SV21, XZWT20].
 $2 + 2$ [LWB20]. $2^w \times 2^w$ [VB20].
 $2\theta(G) + \rho(G) - 1$ [ZW22]. 2×2 [BDK21, WZL21, Xie21]. 3 [IKPR20, Zhe21].

[CGP22, CS21, GvRR21a, GvRR⁺21b, SMA21, WES21, vRvSTT21, MMV21]. $H(3, 4)$ [DG20]. i [GZZ21]. $J_q(N, D)$ [LIW20]. K [FSRVST22, LL21d, BCE21, Fio20, HL20, HLS21b, Le22, MP20a, OdFVM21, SWW22, SSvW20, VTBC20, WSW20, Yaz21, Zhe20, ZBWL20]. $K_{3,3}/K_{2,4}$ [WCF21]. L [BM22]. l^∞ [Yu20]. L_1 [NNSS20]. λ [Mif21]. ≤ 4 [Com21]. LU [LY20]. M [CS21, DMS20, KLS21, Beh21, EJL20, GvRR⁺21b, JJS20a]. $M_n(E)$ [Fid22]. $M_n(F_2)$ [Šte22b]. CP^n [SS22]. \mathbf{F}_q^n [AS20a]. \mathbf{Z} [dAGK21]. \mathbf{Z}_n [CPS20]. $\mathcal{B}(H)$ [AGK⁺21]. \mathcal{D}_α [DPR20]. $\mathcal{L}(C^n)$ [MRZ20]. $\mathcal{L}(H)$ [Wój22b]. $\mathcal{L}(l_2^2)$ [Wój22b]. $f \uparrow(2, C)$ [JL22]. $f \uparrow_4$ [Mor22]. L [BES21]. N [CT20, CK21, JKX20, BDNO20, BCE21, HHS21, LP21, ZWT21]. $n(G) - g(G) - 1$ [CL22]. $n - 3$ [TWW20, TW21]. $n - g$ [ZWT21]. $n \times n$ [DZCY22, SSvW20]. $O(q, k)$ [HHS20b]. $\Omega(2^n/n)$ [Sha22]. P [CK21, MC21b, ME21, AdST22, BM22, CI21, KLLW21, LL21a, dSP20a, ZKLS20]. ψ_S [AP20]. Q [Sud22, CKOS22, Hom20, Lee20, LHZ21, Ner20, ZZ20]. $q + 1$ [Hom20]. $q + 2$ [Hom20]. Q_0 [CESS21, SNK22]. r [LC20]. R^d [DO22]. R_0 [ME21]. s [AK20, BNS22]. S_n [HMS21]. $s \geq 3$ [BNS22]. SR [FRS21]. \star [Ham22]. $SU(2)$ [SoI20]. T [MQW20, BNS22, FdCP20]. $t \geq 2s - 2$ [BNS22]. \times [CL20]. $U_q(\widehat{f \uparrow}^2)$ [LIW20]. W [ME21]. $W(B_n)$ [Ces20]. $x^q + x^{q^3} + cx^{q^5} \in \mathbf{F}_{q^6}[x]$ [MMZ20]. z [DLVV21]. Z_q [GFD21].

***congruence** [Sta21].

-algebras

[CMM20, CN20a, CAEH⁺22, Ham22]. **-analogue** [Ner20]. **-Bernstein** [MMV21]. **-Bures** [DLVV21]. **-chromatic** [Ere21]. **-circulant** [AAMR20]. **-commuting** [LP21]. **-complex** [EJL20]. **-connected**

[HLS21b, ZBWL20]. **-contractivity** [BCE21]. **-Core** [Mif21]. **-cycle** [TCC21, ZWF20]. **-deformed** [CKOS22]. **-designs** [BNS22, HW21b]. **-dimensional** [BS21a, Ban22, LNN⁺20]. **-distance** [BNS22]. **-double** [AdST22, ZZ20]. **-eigenvalue** [CLM20, WFGT20]. **-eigenvalues** [Zha21]. **-forest** [BEF20]. **-frames** [LL21d]. **-free** [BES21, MLH22]. [?]free/Min:2022:SUB. **-functions** [Beh21]. **-graded** [GFD21, dAGK21, RT21]. **-graph** [GZZ21]. **-graphs** [LC20]. **-Hahn** [Lee20]. **-hypercontractivity** [JKX20]. **-hyponormality** [BCE21]. **-idempotent** [HL20]. **-independence** [Fio20]. **-index** [TCC21]. **-infinity** [WES21]. **-invariant** [GG21]. **-Isometric** [JJS20a]. **-join** [CGP22, SMA21]. **-labelling** [SWW22]. **-line** [OdFVM21]. **-linear** [FSRVST22]. **-Majorization** [vED22]. **-matrices** [DGS20, WW22, CS21, CT20, CK21, KLS21]. **-matrix** [BM22, DMS20, LDSS20, SNK22]. **-minor** [WCF21]. **-module** [XY20b]. **-nearest** [Yu20]. **-nonnegative** [vRvSTT21]. **-norm** [BM22, NNSS20]. **-normal** [LL21c]. **-norms** [CI21, FISW21]. **-orbit** [HMS21]. **-orthogonal** [AP20]. **-phases** [CDD21]. **-polynomial** [Sud22]. **-positive** [Le22]. **-power** [LL21a]. **-product** [MQW20]. **-property** [MC21b]. **-rings** [Ham22]. **-selfadjoint** [GvRR⁺21b]. **-semigroups** [AG15, AG20]. **-skeleton** [KLR22]. **-smooth** [MP20a]. **-specified** [AK20]. **-spectra** [JMP21b, Zha21]. **-spectral** [GS21a, KLLW21, WSW20, ZKLS20, DPR20, FW22, LQ21, ZZ21, ZHW21]. **-spread** [LMG20]. **-stability** [KP21]. **-step** [BDV21]. **-sun** [AdST22]. **-symmetries** [AP20]. **-term** [FdCP20]. **-th** [GZZ21, GvRR⁺21b, dSP20a]. **-trees** [BEF20, OdFVM21]. **-uniform** [SWW22, WSW20, Zhe20, Zhe21]. **-unitary** [GvRR21a].

1 [Ano22-47, Ano22-54, Ano22-48, Ano22-42, Ano22-52, Ano22-49]. **15** [Ano22-51, Ano22-39, Ano22-50, Ano22-53, Ano22-43, Ano22-57].

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[Ano22-51, Ano22-47, Ano22-39, Ano22-54, Ano22-50, Ano22-48, Ano22-53, Ano22-42, Ano22-43, Ano22-52, Ano22-49, Ano22-57]. **22nd** [AHKT21].

436 [CdGS20]. **486** [AG20].

520 [FJS21]. **532** [Hou20]. **561** [PW20]. **577** [Ali20]. **582** [KAPS20]. **585** [AD20a]. **586** [JLM20a]. **594** [Slo21a]. **595** [MH21].

610 [FHMP22]. **611** [SD21a].

ABC [LW20b, YD21, GLHNW20]. **Abel** [CN21a, CN22]. **abelian** [KB22, CL21]. **absorbing** [CR21]. **Accelerating** [BHD⁺21]. **Accuracy** [GNR20]. **Accurate** [MPR22, OP21, Yan21]. **achieve** [Sha22]. **actions** [CXZ22]. **addition** [Arl20]. **additive** [GS20b, LP21, XX20]. **ADI** [Rob20]. **Adjacency** [CDVPT22, Co020, AdL21, CGP22, LW21b, XW21]. **adjoint** [DH21, GLT21, PPŻ21, Pan22, SZ20]. **adjointable** [AG15, AG20]. **adjointness** [AC21]. **adjugate** [CZ22a]. **Admissibility** [NS22]. **Affine** [BS20f, Rub22, Hom20, LIW20, Yan22]. **affine-plane** [Hom20]. **after** [Bar20, JST21]. **Algebra** [AD20a, Ali20, AG20, CdGS20, FJS21, FHMP22, Hou20, JLM20a, KAPS20, MH21, PW20, Slo21a, SD21a, AOCM20, BE20, CCS22, FM20a, FP22, GFD21, dAGK21, Jon21, KZPH22, LIW20, MPS22, Mor22, Mur22, Vit21, WFSS20, AHKT21]. **Algebraic** [AM21, Tar20, BEHK22, KS22a, KW20]. **algebraically** [BHBO21]. **algebras** [AM21, AEGV21, Alt22, AOCM20, ABC⁺22,

BS20b, BB22, Bez22, BDHS22, Bla20, BE20, BDV21, CGG⁺21, CMM20, CN20a, CLW22, CdGS12, CdGS20, CZ20a, CMR20, CDG22b, Cos20b, Cra21, CMR21, CAEH⁺22, DP21, DHR20, Eld22, EGL21, FGDY20, FKM22, GK22a, GKS21, GS20a, Gow20, GMP22, Ham22, JLL20b, KY21, Kol21, LM22a, LNN⁺20, LS20b, MT21a, Mar21, Mig21, MRT20, Sas21, SZ22b, Uru22, VdSPdS20, WZL21, XY20a, XZ21, Yan22, ZG21].

algorithm

[Bär21a, BC22, BT20a, BHD⁺21, CLLK21, CZ20b, FM22a, KPP21, NPkT21, YOY21].

Algorithmic [CT20, VV22]. **Algorithms** [Boj21, CLRT22, HNS21, fLLV20, LY20, SZ21, SZ22a]. **ALIF** [BC22]. **Almost** [BDV21, CK21, FMR20, Roc20, Slo21b].

almost-principal [FMR20].

almost-Riordan [Slo21b]. **Alpha** [Min22].

Alternating [OJQ20, EN22, KKS21].

alternative [GvRR21a]. **Aluthge** [Yam21].

amenable [CN20a]. **among** [LW21b].

analogue [Ner20]. **analysis**

[AFSS20, AK20, CW21, FKM20, GM20, LHZ21, MMV21, Mis20, Szc21]. **Analyticity** [LL21b]. **Ando**

[ACM20, BMS20, LS20a, PV21a]. **angle**

[DO22]. **angled** [FKK21a]. **angles**

[BKRS20, ŠH21a]. **annihilating** [FG22].

Anti [FP22, AFSS20, BW22, TT21].

anti-diagonal [BW22]. **anti-dual** [TT21].

Anti-isomorphisms [FP22]. **anti-regular**

[AFSS20]. **Anticodes** [BGLR22]. **antilinear**

[RT21, SZ20]. **antinorm** [GZ20b]. **Apéry**

[MRT20]. **Appl** [AD20a, Ali20, AG20,

CdGS20, FJS21, FHMP22, Hou20, JLM20a,

KAPS20, MH21, PW20, Slo21a, SD21a].

application

[DMQD20, Fio20, PS22, Pra20, RSS21].

Applications

[CC22b, Kak20, KK20a, SZ22a, AAMR20,

CST21, CCL21, Djo21, DL22, EGJP21,

FISW21, HCZ20, KP21, LHFL20, MMV21,

MP22, MG21, SWW22, Wój22a]. **Applying**

[LNN⁺20]. **approach** [Djo21, DFH⁺20, FGM21, HT22, IB22, LHK20, SK21a, Ste21a]. **approaches** [Ghi20]. **Approximate** [Wój22a, GNR20, dAdCG⁺21]. **approximating** [Bar21b]. **Approximation** [FKMM21, RKBA21, ZRQK22, Bot21, CEF⁺22, CKM20, FGM21, KKM22, KPP21, KST22, Rao21, Rod21, SK21a, Wój22b]. **approximations** [CHHS20, DMQD20, GZ20b]. **April** [Ano20-63, Ano20-65, Ano21-53, Ano22-45, Ano22-51]. **arbitrary** [BDRS20, CGP22, FISW21, MMR20, VB20, WWJ20, WFGT20, ZHSX20]. **arboricity** [HXL21]. **arcs** [KK20b]. **argument** [MB20]. **arise** [CGP21]. **arising** [KMZ20, MMZ20, Oli21]. **arithmetic** [BLS20]. **arithmetical** [VV22]. **arrangements** [Win21]. **array** [He20]. **arrays** [MMW22, Pet21, Slo20, Slo21a, Slo21b, YY21]. **arrowhead** [CRSY22]. **Artin** [FKK21a]. **Artinian** [Alt22]. **Askey** [SS20]. **aspects** [Got20, VV22]. **assignment** [ZK21]. **assignments** [NMS20]. **associated** [AG15, AG20, BR22, BLS20, CCKM22, CA22, DZCY22, GLZ20, HCZ20, HP22, KL21a, KS22c, LW21a, MRT20, PPŻ21, RW21a]. **association** [BMS21, LTTW22]. **Asymptotic** [LLW21, MPS22, LLW20]. **asymptotically** [Roc20]. **attaining** [BDSS21]. **attainment** [PSZ21]. **Audenaert** [DF20b]. **August** [Ano20-50, Ano20-52, Ano21-61, Ano22-39, Ano22-47]. **automorphism** [Oli21, SZ22b]. **Automorphisms** [Bez22, DGET21]. **autoregression** [FKMM21]. **autoregressive** [GZ20a].

B [BGOO21]. **B-splines** [BGOO21]. **backtracking** [GK21, KKS21]. **Backward** [Pra20, Hal20, TV21, WW20]. **balanced** [BW21, DK21]. **ball** [MAG21, Wój22b]. **Banach** [AEGV21, AHV20, BS21a, Ban22, BDI20, Djo21, FPR20, IKLP20, MP20a, Sas21]. **band** [CCCS21, EGV20]. **Bartholdi** [Zhu21]. **based** [Bla20, CL21, FQ20, GMR22, KCML20, LLW20, LLW21, LW21b, MQW20, NPkT21, NPHT20, SGGZ21]. **bases** [ADMZ21, NWW20]. **basic** [VS21]. **basis** [TL21, Yos21]. **Bayes'** [PR22a]. **behavior** [GP20]. **Bell** [GZ20c, Li20a]. **below** [GK20]. **Berezin** [CF22]. **Berge** [KLLW21, ZKLS20]. **Bernoulli** [Kim20]. **Bernstein** [MMV21]. **Bessel** [MPR22]. **Best** [Bot21, Rao21, Wój22b]. **Bethe** [FB21, YW22]. **Better** [OM20]. **Between** [PPW20, BCE21, CMS21, CAEH⁺22, FPR20, GKS21, GMR22, IOT21, KS22c, MP20a, Min22, Sán21, WFL20]. **betweenness** [DF20b, DF22]. **Beurling** [ACSS22]. **beyond** [RS21b]. **Bhattacharya** [CLwW22, GF20]. **Bhattacharya-Mesner** [GF20]. **bicyclic** [DGS⁺21a, SWW21, YD21]. **bidegreed** [SSS21]. **bidagonal** [MMV21]. **bifurcation** [FHLS22]. **bifurcations** [Fik20]. **Bilinear** [SDS21, Bui21, KLLS22, RSS21]. **binary** [BT20a, May21, Sha22]. **Binomial** [BCR20]. **bipartite** [AD20a, AD20b, BJP21, CP21, GLZ21, JMP21a, LG21a, OJQ20, Sim21, SZ21]. **biregular** [FM20a, HP22]. **Biregularity** [RS21b]. **Birkhoff** [AGK⁺21, Shi22]. **Bivariate** [CCCS21]. **Blind** [GZ20a]. **Block** [CLRT22, HMPT20, BS20d, CW21, CZ20b, CDG21, CDG22a, Dew21, FGDY20, FLT20, FG20, LOŠ21a, LG21b, RS21a, RKBA21, SZSMB20, VdSPdS20, XLS20, YOY21, dAdCG⁺21]. **block-diagonal** [BS20d]. **block-Jacobi** [YOY21]. **Block-sparse** [HMPT20]. **block-triangular** [FGDY20]. **blocks** [CDG22a, DGS⁺21a, EGC21, KS20a, Sta20a]. **blow** [LZ21b]. **blow-up** [LZ21b]. **Board** [Ano20a, Ano20b, Ano20-27, Ano20-28, Ano20-29, Ano20-30, Ano20-31, Ano20-32,

Ano20-33, Ano20-34, Ano20-35, Ano20-36, Ano20-37, Ano20-38, Ano20-39, Ano20-40, Ano20-41, Ano20-42, Ano20-43, Ano20-44, Ano20-45, Ano20-46, Ano20-47, Ano20-48, Ano20c, Ano20d, Ano20e, Ano20f, Ano20g, Ano20h, Ano20i, Ano20j, Ano20k, Ano20l, Ano20m, Ano20n, Ano20o, Ano20p, Ano20q, Ano20r, Ano20s, Ano20t, Ano20u, Ano20v, Ano20w, Ano20x, Ano20y, Ano20z, Ano21a, Ano21b, Ano21-27, Ano21-28, Ano21-29, Ano21-30, Ano21-31, Ano21-32, Ano21-33, Ano21-34, Ano21-35, Ano21-36, Ano21-37, Ano21-38, Ano21-39, Ano21-40, Ano21-41, Ano21-42, Ano21-43, Ano21-44, Ano21-45, Ano21-46, Ano21-47, Ano21-48, Ano21c, Ano21d, Ano21e, Ano21f, Ano21g, Ano21h, Ano21i, Ano21j, Ano21k, Ano21l, Ano21m, Ano21n, Ano21o, Ano21p]. **Board** [Ano21q, Ano21r, Ano21s, Ano21t, Ano21u, Ano21v, Ano21w, Ano21x, Ano21y, Ano21z, Ano22a, Ano22b, Ano22-27, Ano22-28, Ano22-29, Ano22-30, Ano22-31, Ano22-32, Ano22-33, Ano22-34, Ano22-35, Ano22-36, Ano22-37, Ano22-38, Ano22c, Ano22d, Ano22e, Ano22f, Ano22g, Ano22h, Ano22i, Ano22j, Ano22k, Ano22l, Ano22m, Ano22n, Ano22o, Ano22p, Ano22q, Ano22r, Ano22s, Ano22t, Ano22u, Ano22v, Ano22w, Ano22x, Ano22y, Ano22z]. **Bohemians** [CCGV⁺20]. **Boolean** [KCML20]. **Bordered** [Kli20a, CESS21]. **Borders** [AHKT21]. **Bose** [Mar21]. **bound** [BT20b, FLRS20, Fio20, Hae21, LHZ21, MLH22, WG20a]. **boundary** [CEM21, KŠ22b]. **Bounded** [BDRS20, AGV20, BS20d, GK20, Lyu20, MS21]. **boundedness** [RAK21]. **Bounding** [CKOS22, GLS22, KL21b]. **Bounds** [DW21, GLHNW20, KKP21, LW21c, PP20, SK21b, WWT20, ASS21, AGH20, BHHP21, BR22, CKTP20, CAJ21, CI21, DYB20, DK21, FQ20, GMR21, KCPMNS21, MT21b, MP21, OM20, Skr20, Skr21, Sta20a, VCR21, WG20b, ZZ21, GZ20b]. **Braess'** [Cia20a]. **braided** [Sol20]. **Brazil** [AHKT21]. **breaking** [AKL⁺21]. **bridge** [BCE21]. **Brouwer** [Coo21, GPRT20, Roc20]. **Brualdi** [YLCB21]. **Brualdi-type** [YLCB21]. **Bruhat** [FdCS20]. **Brunn** [LF20, ZJCA20]. **Bures** [DLVV21, Min22]. **Cadzow** [KPP21]. **cages** [HP22]. **calculus** [LMR21, NS21]. **Calderón** [GR22]. **can** [HMS21]. **canonical** [GvRR21a, Sta21, SZ20]. **cardinality** [SS21b]. **Cartan** [FKM22, Sim20]. **case** [AS20a, CV21, GS21a, Mañ22, Zem22]. **Catalan** [Pet21]. **Cauchy** [Ner20, Yan21]. **Cayley** [ASG22, BL22, Ces20, DF20a, ET20, Hua22, KB22, LW21a, Mur22, PV21b, SSvW20]. **Cellularity** [XY20a]. **center** [CDM20, Cia20b, PV21a]. **central** [GFD21]. **centrality** [BD21a]. **centralizer** [MMR20, XZ21]. **centrosymmetric** [CCK21a, XY20a]. **certain** [AG21, BDNO20, BS20f, Cra21, CMR21, DO22, EMŠV22, GLZ20, GL20a, JMP21b, LW21a, Shi21c, TW21]. **Chains** [CGG⁺21, AHV20, CCPKP20, CR21, DS20, LL20, VS20]. **Change** [JST21, SD21a, SD21d, TLC20]. **changes** [KK22b]. **channels** [AKL⁺21, GL21]. **Characteristic** [JL22, Kad20, ABSV21, CB21, Cia20b, GM22, HHS20b, Kor21, KLLS22, LS20b, YLZH21, Zhe21]. **characteristic-like** [GM22]. **characteristics** [AKPS19, KAPS20]. **Characterization** [AG21, MP20a, NYW22, TWW20, AMR20, AdST22, BP21b, DMS20, MM21, NWW20, SC20a, SSS21, TW21, Lew21]. **Characterizations** [CMM20, MC21b, ME21, NPHT20, ZBCI21]. **Characterizing** [AHZ22, KSSW20, VTBC20]. **Chebyshev** [WCS20]. **Chebyshev-like** [WCS20]. **Chief** [Ano21-49, Bru21, Bru22]. **Cholesky** [Kim20]. **chordal** [AJM21]. **chromatic**

[Ere21, PK21, WYF⁺20, WYQ21]. **circle** [Adr22, BBCD21, FG20]. **Circulant** [DN21, AAMR20, ACOM21, CEJM21, Che21, DS22, 0110MM⁺22]. **circular** [GW20, PW21]. **CKV** [CCL21]. **CKV-type** [CCL21]. **Clarkson** [BL20]. **class** [AR21, CHT20, CESS21, EGV20, Fio20, Hu21, KW20, Loe21, SL20a, SL21]. **Classes** [BP21a, ACD22, GLZ20, GK22b, KZPH22, ME21, OP21, PPZ21, Pan22, ZM21]. **classical** [CGP21, KW20, Pet21]. **Classification** [BKS⁺21, Sim21]. **classify** [LNN⁺20]. **Classifying** [IdSSV21]. **clean** [Šte22b]. **Cleaning** [KS22a]. **clique** [DW21, HLX20, HXLL21, JGZ21, ZvD21]. **cliques** [DKL⁺22]. **close** [MS21]. **closed** [BHBO21, Bru20, SL21]. **closest** [Kov21]. **Cluster** [EGL21]. **clustered** [BDGY21, KN20]. **clustering** [AEGL21]. **CM** [EL20]. **CMV** [FG20, GP20]. **co** [ZBCI21]. **co-EP** [ZBCI21]. **coalgebras** [FMS21, KUZ22, Pan21]. **cocharacters** [Iop20]. **coclique** [SD21c]. **code** [KCML20]. **Codes** [BCR20, BZZ22, CL21, CXZ22, GL20a, LLSV21, MMZ20, NPkT21, NPR22, NPHT20, Ner20, Oli21]. **Codeterminantal** [AAHV22]. **codimension** [Alt22, MRT20]. **coding** [KS22a]. **coefficient** [GZZ21, GQZ20, LL21b]. **coefficients** [GP21, PP20, RS21a]. **cograph** [LL21e]. **Cohen** [FG22]. **coherence** [MB20]. **coherent** [Sud22]. **cohomology** [FKK21a]. **coin** [SMA20]. **coincide** [tHvdM21]. **Colin** [MS20b]. **Collatz** [KL21a]. **collection** [MAG21]. **Coloring** [AMZ21, KKO022]. **colourings** [OJQ20]. **Column** [Shi21b]. **Combinatorial** [LS21, CST21, Got20]. **Combinatorics** [DS20, Gol20]. **common** [LHK20]. **communicability** [HD22]. **Commutative** [BE20, Got20, Mig21, PR22a, SS22, Szc21]. **Commutativity** [Pan22]. **Commutator** [CAJ21, CJ20, CKOS22]. **commutators** [BDHS22, VZ20]. **Commuting** [CMT21, BFPS21, Fek20, LP21, SS20, Xie21]. **Comon** [ZHSX20]. **compact** [JLM20a, JLM20b, Pan22, Rao21, hB21]. **compactly** [AKPS19, KAPS20]. **Comparative** [ŠH21a]. **compensation** [MM21]. **complement** [Dev22, MH20, MH21, TT21]. **complementable** [ACM20]. **Complementarity** [BCFT21, FQ20, MG21, MC21b, SS21b, SNK22, XX20]. **complements** [LQL21, QLCM20]. **Complete** [AC21, FHMP21, FHMP22, BGOO21, CCPKP20, Coo20, IMT20, SC20a, Shi21b, SSS21, SD21a, SD21d, TLC20, Zhe20, Zhe21, tHvdM21]. **Completely** [BLS20, BHMU20, FOR22, GD20, LHFL20, ZFZ20]. **completion** [BT20a, BBS20, DAG21, Kim22, SL20a, TL21]. **completions** [CP21, EGC21]. **Complex** [CFK⁺20, LWH21, XZWT20, ACLS20, CDM21, ES20, EJJL20, Fik20, FP21, Har22, HHD20, HW21a, Kni20, LW21c, MRZ22, dSP20a, SK21b, WCKQ20]. **complexes** [KMZ20]. **Complexifications** [IKLP20]. **component** [FKMM21]. **components** [Yaz21]. **composition** [AOCM20]. **compound** [FKMM21]. **compressing** [Cos22]. **compression** [Cra21, CMR21]. **comprised** [FS20]. **Computation** [SK21a, Bol21, CHHS20, DK21, MC21a, OSC20, Var21, Zhe20]. **computational** [Sim20]. **computations** [MPR22, Mar21, Yan21]. **computed** [CKTP20]. **computing** [AHZ22, KK20a]. **Concavity** [Shi20a]. **Concentration** [HW20]. **concentric** [PW21]. **concept** [KP21, SG20]. **concerning** [CJ20, FdCS20, GAM20, Iop20, QJW20, Row20]. **condition** [BS20e, CV21, Gal21, GLZ21, fLLV20, LG21a, Pra20]. **Conditional** [BCE21]. **conditions** [BP21b, HMPT20, Pri22, ZWL20b, ZWL20a, ZBWL20]. **cone** [CIM22, GNR20, MC21b]. **cones** [GKS21, ST20]. **Conference** [AHKT21].

configuration [cRLY20]. **configurations** [CDG22b, Sud22]. **Congruence** [BFMS21, HWK21]. **conic** [LPV21]. **conjecture** [BD21a, BCM21, Buc20, CLL20, CJ20, CLwW22, Coo21, FdCS20, GPRT20, HD22, KL21a, LZ21b, PPW20, Roc20, SD20, SL20b, SD21a, SD21d, Tur21, YW22, ZHSX20]. **conjectured** [GAMA20]. **Conjectures** [BC22, KK22a, BEHK22, GLLZ20, KK20b, SD21c]. **conjugacy** [PPZ21, Pan22]. **Conjugate** [EL20, ES20]. **connected** [AHLvdH21, CCPKP20, CLL20, CLT22, HLS21b, dSP20a, SS21b, WFGT20, WG20a, WZW⁺21, ZWL20b, ZWL20a, ZBWL20, ZWT21]. **Connectivity** [CDS21, HLX20, BEHK22, DPR20, HS22, WYF⁺20]. **conquer** [BT20a]. **consistent** [LG21b]. **consisting** [SZ20]. **constant** [LL20, LLSV21, Rub22]. **constants** [Mlo22]. **constrained** [LLV20]. **Constraints** [CFKO21, Coo21, BES21, PS22, SDS21]. **Constructing** [Kin21, LL21d]. **Construction** [APNP⁺21, CL21, AO22, CT20, ET20, cRLY20, QJW20, VS21]. **Constructions** [CXZ22, AM21]. **contain** [Vit21]. **containing** [AS20a]. **contingency** [PP20]. **Continuity** [CG20, RW21a, Car21]. **continuous** [Zha22]. **continuous-time** [Zha22]. **contour** [FP21]. **contracting** [LC20]. **contractions** [LZ21a]. **contractivity** [BCE21]. **control** [BPZ21, Dra22, WES21, ZK21]. **controllability** [AD20a, AD20b, BPZ21]. **Convergence** [CW21, BWW21, Har22, YOY21]. **converters** [GS21c]. **Converting** [DGS21b]. **Convex** [GKS21, MS21, JJL20a, Sán21, ST22, ST20]. **Convexity** [CF22, EMŠV22]. **Convolutional** [HNS21, NPR22]. **coordinates** [FM22a, Sar21]. **copositive** [LHFL20]. **copositivity** [Ans21]. **coprime** [Var21]. **corank** [EG20, Kop20, SZ21]. **Core** [Mif21]. **corners** [MRZ20]. **corona** [LLH20]. **corona-type** [LLH20]. **coronae** [SC20b]. **correlation** [GQZ20, Li20a]. **corresponding** [BLS20, RS21a, TV21]. **Corrigendum** [AD20a, Ali20, AG20, CdGS20, FJS21, FHMP22, Hou20, JLM20a, MH21, PW20, Slo21a, SD21a]. **cospectral** [KSSW20, LWYL20, QJW20]. **Cospectrality** [MPRS21, Her20]. **countable** [LL20]. **counter** [Slo20, Slo21a]. **Counterexamples** [CLwW22, FJS17, FJS21]. **coupled** [GP21, ZBdAF20]. **couplings** [OSC20]. **covariance** [GZ20a]. **Cowen** [JKX20]. **Coxeter** [Sim20, Sim21, SZ21, SZ22a, dIPG21]. **CP** [ZBdAF20]. **Cramer** [NWW20]. **criterion** [MMW22]. **critical** [BM22]. **Cross** [DGET21, CKM20]. **Crouzeix** [Li20b, PPW20]. **cubic** [CH21]. **Cuntz** [ACSS22]. **curvature** [ÁVKP20b, Sic21]. **curve** [GQZ20]. **curves** [BdPS21, Hom20, NYW22, Sán21]. **Cut** [Mis22, Nic20, MMP21]. **cut-and-project** [MMP21]. **Cvetković** [KKOO22]. **Cvetković-type** [KKOO22]. **cycle** [TCC21, ZWF20]. **cycles** [AGNN20, ACLG21, CWZ22, CP21, JMP21a, KSY21, LW21a, LG21a, LWYL20, SMA20, SD21c, Tho22]. **Cyclic** [Bol22, CL21, Mig21, VdSPdS20]. **cyclicality** [KCPMNS21]. **cyclomatic** [WWJ20]. **D** [SV21]. **DAHA** [Lee20]. **damped** [YGW20]. **data** [ADGK21, CLS20, SL20a, YGW20, ZW20]. **decay** [BR22]. **December** [Ano20-55, Ano20-66, Ano21-62, Ano21-67]. **decoding** [NPkT21]. **decoherence** [FOR22]. **Decomposition** [Kor21, ÁVKP20a, BES21, FRS21, Gal21, JMP21a, Kim20, LY20, MMV21, MQW20, Pre20, Ste21b, VB20, VCR21, Wój20, WX20]. **Decompositions** [BDHS22, CCP22,

LDW21, MO20, SDS21, ZBdAF20].
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Haagerup [Ali20, HAD19]. **Hackbusch** [Buc20]. **Hadamard** [FJS21, AAF⁺21, CFK⁺20, FJS17, HW21a, HY20, HK20, Le22, LH20, LS20c, RW21b, Tei22]. **Hadamard-type** [Le22]. **Haemers** [ACG⁺21, Bru20]. **Hahn** [Lee20]. **Half** [He20]. **Halin** [CLM22]. **Halmos** [XY20b]. **Hamilton** [Mur22, SSvW20, ZWL20b, ZWL20a]. **Hamilton-connected** [ZWL20b, ZWL20a]. **Hamiltonian** [FCLP22, GS21b, LWYL20,

MMW21, SS21a, ŠH21b, ZS22, dICP20]. **Hamiltonicity** [FKK21a, ZBWL20]. **hand** [Hal20]. **Hankel** [Bou21, Dom20, DG22, FGM21, GW22, KPP21, SS20]. **Harary** [CC22b]. **hard** [DL22]. **Harmonic** [FS20]. **Harmonious** [XY20b]. **Harnack** [JL20, YZ20]. **Harpe** [Ali20, HAD19]. **Hartfiel** [Mao20]. **Hausdorff** [FKM20]. **having** [CDG22a, GZZ21, LNN⁺20, TW21]. **Hecke** [Wie22]. **Heisenberg** [FKM22]. **Hellinger** [DF20b]. **helm** [Goe21]. **hereditary** [Yan22]. **Hermite** [CLLK21]. **Hermitian** [BLMT21, BR22, BDI20, CN22, FM20b, GM20, GL22b, IB22, Kli20a, MSZ21, MRV20, Moh20, Sta21, SZ20, ZFZ20]. **Hessenberg** [CCGV⁺20]. **Hessian** [Yaz21]. **hierarchical** [IB22]. **High** [ZBdAF20]. **High-order** [ZBdAF20]. **Higher** [Kak20, BdPS21, HLYZ21, PW21, SH20]. **Higher-rank** [Kak20, BdPS21]. **Hilbert** [ANAS20, BM22, Fra22, Min22, OM20, Pan20, XY20b, ZW21, hB21]. **Hilbertian** [MXZ20]. **hitting** [LV22]. **Hoffman** [Hae21]. **holds** [Roc20]. **homogeneous** [BGOO21, DG20, DR20, HCZ20]. **homotopy** [KW20, NS22]. **Hong** [Sta21]. **Horadam** [ACOM21]. **horizontal** [MG21]. **Horn** [BJ20b, SZ22a, ZX20]. **Householder** [CP20]. **HS** [KB22]. **HS-integral** [KB22]. **Hubs** [Est20]. **Hubs-repelling** [Est20]. **hulls** [CK21, Cos22, JJJ20a, KS20a]. **Hurwitz** [AOCM21]. **hyper** [AL21]. **hyper-positive** [AL21]. **hyperbolic** [BG20]. **Hyperbolicity** [GL22a]. **hypercontractivity** [JKX20]. **hypergeometric** [VS21]. **hypergraph** [CB21, CZ20b, SWW22, WSW20, WS22, YYS⁺21, Zhe20, Zhe21]. **hypergraphs** [AMZ21, Ban21, CHT20, CDVPT22, CC22b, Coo20, DW21, GRR22, HCZ20, KLLW21, LL21c, SB20, SWW21, XW21, ZLG20, ZZ21, ZKLS20]. **hypermatrices** [GF20]. **hyperovals** [DG20]. **hyperplane** [HMS21]. **hypersurface** [ÁVKP20b, BR21]. **hypersurfaces** [DFH⁺20]. **Hypoenergetic** [ADGKM21]. **hyponormality** [BCE21]. **HZ** [Har22]. **idealization** [FP22]. **Ideals** [VMB22, AT20, Alf20b, ABSV21, Bot21, CDG22b, JLM20a, JLM20b, KLR22, LNN⁺20, LP21, Mañ22, Wer22]. **Idempotent** [BDSS21, BM20, HL20, SZ22b]. **Idempotents** [EAHS21]. **identifiability** [AC20b]. **Identifying** [HW21a, Mañ22]. **identities** [FKM22, Fid22, GFD21, dAGK21, Uru22, VdSPdS20]. **identity** [SSvW20]. **Ihara** [IIM⁺21, SC20b]. **II** [AS20a, CG20, Cra21, KP22, SS22, Sim21, Wój22a]. **III** [dSP20b]. **ILAS** [AHKT21]. **image** [WZL21]. **Images** [Vit21, BHBO21, CLW22]. **immanants** [DGS21b]. **imperfect** [Los21b, Sar21]. **Improved** [FQ20]. **in-betweenness** [DF20b, DF22]. **In-evolution** [Pan21]. **Incidence** [GRR22, CCKM22, DHR20, FP22, GK22a]. **inclusion** [YLCB21]. **indefinite** [Boj21, BKS⁺21, Kov20]. **independence** [ABC⁺22, CDG21, Fio20]. **Independent** [Pat20, GLP21]. **Index** [LH21, AA21, CHY20, CMR20, GMR22, HD22, KL21c, ŠH21a, Šte22b, SSvW20, TCC21]. **indices** [ADMZ21, ALMZ⁺20, BPZ21, FLRS20, LW21b, WFL20]. **induced** [Gow20, ST20, Sra21, Yam21]. **Inequalities** [JLM20a, JLM20b, ANBK22, Ala21, BDK21, BP21b, BL20, CLM20, ES20, FLT20, GAM20, Gow20, HW20, JJJ20b, Le22, LS20a, Li20a, LH20, Li22, MPS22, MKE⁺20, MXZ20, YZ20]. **inequality** [Ali20, BMS20, Bru20, GOZ21, GAMA20, HAD19, JL20, LF20, LS20c, Mao20, Naj20, PPW20, QCCS21, RW21b, ZJCA20]. **inertia** [WFL20]. **inexact** [WCS20]. **infinite** [Bez22, CG20, Fid22, HLZ17, Hou20, Rob20]. **infinite-dimensional** [CG20]. **infinity** [WES21]. **Information** [MS22, BS20b].

Injectivity [GRR22]. **inner** [BKR⁺20, BNS22, BDV21, CS20, Fek20]. **inspired** [BS20e]. **Integer** [AJM21, HLS21a, Ans21, KS20b, Kop20, NPkT21, PV22, Sim20, VS20]. **Integral** [BDVR21, Ger20, GKLZ20, PV21b, WH20, ÁVKP20b, ABR⁺22, KB22, MZ22, NdLO21, Sha22, dLMO20]. **integration** [NS21]. **interlacing** [CZ22b, LZ21a]. **interpolation** [Bol22, GS20a]. **interpretation** [PV21a]. **intersecting** [DKL⁺22, ZHG21]. **intersection** [BFPS21, CVV21]. **Interval** [CK21, Rub21, AG21, Bib22, MP20b, SL20a]. **Intervals** [CS21]. **Invariant** [Lim21, ANBK22, AG15, AG20, Che22, CKLL20, CMP21, DLL20, GG21, KK20a, KLLS22, NNSS20, RMP21, WW20]. **invariants** [ÁVKP20b, CL20, KY21, NPHT20, Oli21]. **Inverse** [CN22, DMS20, GK20, PSAPNV20, YGW20, AAMR20, BBG21, Beh21, Bol21, CEJM21, CS21, CCK21b, CN21a, CESS21, FHLS22, GR22, LOŠ21a, RX21, SS21c, WCS20, dAdCG⁺21]. **inverses** [GZ20a, KLS21, MR21a]. **Inversion** [AHV20, RS21a]. **invertibility** [Cos20b]. **invertible** [FM22a, Loe21]. **involution** [HS20, Iop20, IdSSV21, PS20, Uru22]. **involutions** [AdlC20, EV20, FGDY20, FP22, HLZ17, Hou20, HHS20b, RAK21, Slo21b]. **Involutive** [BW22]. **involutory** [CCK21b]. **involving** [ACOM21]. **irreducibility** [MG21]. **Irreducible** [CCU21, Wie22, Dra22, Hu21, YLZH21]. **isolated** [AHV20]. **Isometric** [CFSiT20, JJS20a]. **isometries** [BG20, CAEH⁺22, GS21a, GL22b, IKLP20, IOT21, MS21, Sán21]. **isometry** [BL20, Sat21]. **isomorphism** [KK22b]. **isomorphisms** [CMM20, FP22]. **isospectral** [KSSW20, PV21b]. **Isospectrality** [PW21]. **isotropic** [Car21]. **Issue** [AHKT21]. **iteration** [Rob20]. **iterations** [BKRS20, WW22]. **iterative** [DL22]. **iteratively** [CW21].

Jacobi [AM21, CN22, IB22, SS20, VS20, YOV21, ZW20]. **Jacobsthal** [ACOM21]. **James** [AGK⁺21]. **Janeiro** [AHKT21]. **January** [Ano20-69, Ano20-56, Ano21-68, Ano21-70, Ano22-55, Ano22-56]. **JB** [CAEH⁺22]. **Jensen** [Sra21]. **Jiang** [WW20]. **Johnson** [AHM20, MB20]. **join** [CGP22, SMA21]. **Joins** [SB20, 0110MM⁺22]. **joint** [CMS21]. **Jordan** [AM21, AHV20, Alt22, AO22, CCU21, FP20, GS20a, Gow20, JLL20b, JJS20b, KT21, KS20a, PK22, Sán21]. **Jordan*** [CMM20]. **Jordan*-isomorphisms** [CMM20]. **Jordan-Kronecker** [KT21]. **July** [Ano20-58, Ano20-53, Ano21-63, Ano21-59, Ano22-48, Ano22-53, AHKT21]. **June** [Ano20-59, Ano20-51, Ano21-51, Ano21-58, Ano22-54, Ano22-50]. **just** [Row20].

Kac [FKM22, Fik20, FP21]. **Kaczmarz** [BHD⁺21, LG21b]. **Kahan** [WW20]. **Kantor** [AOCM21]. **Karcher** [GLP21, GL22a, LL21b]. **Karpelevic** [KŠ22b]. **Karpelevich** [KK20b]. **Kemeny** [LL20]. **kernels** [AG15, AG20, BFPS21, NWW20]. **kind** [Moh20, XX20]. **Kippenhahn** [BdPS21]. **Kirchhoff** [KL21c, RFP22]. **Kiselman** [Wie22]. **Ko** [Adr22]. **Kraus** [ST22]. **Kronecker** [FKMM21, KT21, MB20, PP20]. **Krylov** [CCS22, Rob20, SS21a]. **Krylov-Lagrangian** [SS21a]. **Kubo** [LS20a, PV21a]. **Kuiper** [MT21a].

labeling [LL21c]. **labelling** [SWW22]. **Lagrange** [Bur21]. **Lagrangian** [SS21a]. **Laguerre** [MPR22]. **Laman** [BC21]. **Lanczos** [GP21]. **Lanczos-like** [GP21]. **Laplacian** [AMZ21, AJM21, ASS21, AAFT22, AvDF20, AdL21, BEHK22, Bol21, CLS20, CPS20,

CLZ20, CWZ22, Coo21, DDFM⁺21, ET20, Est20, FCLP22, GM22, GPRT20, GZZ21, HLS21b, KKP21, LWB20, LLW21, LQL21, MT21b, Nic20, Obo22, PK21, SSS21, Sta20a, SD21b, TWW20, TW21, VTBC20, WYF⁺20, WZW⁺21, XW21, XY20c, XLYS20, ZXL20, ZHG21, ZWL20b, ZWL20a].

Laplacian-type [LLW21]. **Laplacians** [Dev22, KLR22]. **large** [AvDF20, BW21, CHHS20, cRLY20, ZWL20a]. **large-scale** [BW21, CHHS20]. **larger** [dLMO20]. **largest** [ABG20, Csi21, LWB20, WWT20, XLS20, YK21, YWF21]. **lattice** [ACLG21, KS22a, Pol20]. **lattice-subspaces** [Pol20]. **lattice-theoretical** [KS22a]. **lattices** [FK21]. **Lax** [ACSS22]. **LCM** [GR21]. **learning** [ÁVKP20b]. **least** [Boj21, CW21, CKTP20, Ghi20, Hal20, LDSS20, SC20a, Sta20a]. **least-squares** [Hal20]. **Lefkovich** [APNP⁺21]. **Lefschetz** [MRT20]. **left** [DHH⁺20]. **left-star** [DHH⁺20]. **Leibniz** [LM22a]. **lemma** [FHLS22, SMA21, KS22a]. **length** [JMP21a]. **Lengths** [Mig21]. **Lenstra** [FG22]. **Leslie** [PSAPNV20]. **level** [XX20]. **LeVerrier** [Bär21a]. **Levinger** [AC20a]. **Lidskii** [ŠH21a]. **Lie** [CdGS20, HMS21, BBNS22, BE20, BDV21, CdGS12, CZ20a, CMR20, Eld22, GG21, GJV20, KY21, KLLS22, LNN⁺20, LS20b, LP21, QSH22, SSvW20]. **Lieb** [AS20b]. **liftings** [MS21]. **like** [ACOM21, ES20, GM22, GP21, WCS20]. **limit** [Zem22]. **limited** [BW21, DK21]. **limiting** [RW22]. **limits** [BC21, CN20b, CR21, Mań22]. **Lindbladians** [Szc21]. **Lindenstrauss** [MB20]. **line** [AAAH22, Bru20, CZG21, CLZ22, CDD21, OdFVM21, Onn21, VZ20]. **Lineability** [FSRVSST22]. **Linear** [AD20a, Ali20, AG20, CdGS20, Cos20a, Cos21, Cos22, FJS21, FHMP22, GS21c, GJKM21, Hou20, JLM20a, KAPS20, MH21, PW20, QSS22, Sło21a, SD21a, tHvdM21, Ans21, Arl20, AR21, BPZ21, BEF20, Boj21, BKS⁺21, BS21b, BS20g, CLZ22, CVV21, CLZ20, CI21, CMS21, CZ20a, Com21, DN21, FM22a, FQ20, FSRVSST22, GP21, GL20a, HPSZ21, KS22a, KK20a, KCML20, Lew21, LG21b, MAG21, MG21, MC21b, MKE⁺20, NPkT21, NPHT20, Pre20, RW22, ŠH21b, SL21, SNK22, ZK21, AHKT21].

linear-algebraic [KS22a]. **Linearity** [Sán21]. **Linearizations** [PQ22, ADMZ21, DMQD20]. **linearized** [MP22, Oli21, PZ20]. **linearly** [GLP21, Pat20]. **lines** [BS20f, FP21, GIJM22, cRLY20, Zal22]. **Link** [BBW20]. **linked** [BS20f]. **Linking** [Mor22]. **Lipschitz** [Car21]. **list** [NPkT21]. **Littlewood** [KK20a]. **lively** [SMA20]. **LLL** [CLLK21]. **Local** [ÁVKP20a, CRR20, DMQD20, MORŠ21, BC21, CZ20a, JJS20a]. **local-global** [CZ20a]. **localization** [Che22, GP20]. **Locally** [FMS21, Ste21b]. **Locating** [RB22]. **LOCC** [KMNP20]. **Log** [Min22]. **Log-Euclidean** [Min22]. **Log-Euclidean/Log-Hilbert** [Min22]. **Log-Hilbert** [Min22]. **logarithmic** [Fra22]. **long** [CWZ22]. **look** [KS22a]. **loops** [IMT20]. **loss** [CPTP21, FKMM21]. **Low** [TL21, ZRQK22, FGM21, JMPS21, KST22, Li20a, LHZ21, MO20, SK21a]. **low-dimensional** [Li20a]. **Low-rank** [TL21, FGM21, KST22, LHZ21, SK21a]. **Lower** [ASS21, GMR21, MP21, Sta20a, ZZ21, AGH20, BS20f, Dew21, GZ20b, Loe21, MT21b]. **lower-triangular** [Dew21]. **Lu** [GLLZ20]. **Łukasiewicz** [YY21]. **Lyapunov** [BF21, GP20].

Macphail [Tei22]. **Magic** [HHS21]. **magnetic** [FCLP22]. **main** [AFG⁺21, FB21, VTBC20, YW22]. **Majorization** [DGS20, Gow20, JLL20b, YZ20, vED22]. **majorizations** [GS21c]. **Manifold** [ÁVKP20b]. **manifolds** [ÁVKP20a]. **many** [CN20b]. **map** [CN22]. **mapping** [GKS21].

mappings [Shi20a]. **maps** [BFMS21, BHMU20, BS20g, Bui21, CMT21, Cos20a, Cos20b, Cos21, Cos22, DN21, FOR22, GJV20, GS20b, GMP22, JLL20b, KCML20, LV22, LL21b, LR21, LHFL20, LP21, ST20, tHvdM21]. **March** [Ano20-70, Ano20-54, Ano21-64, Ano21-66, Ano22-40, Ano22-46]. **Markov** [BS20a, CR21, EGJP21, LL20, RMP21]. **mass** [VS20]. **Matching** [FCLP22, HHD20, LZ21a, WZW⁺21, YYS⁺21]. **matchings** [O.21, ZHW21]. **mates** [KK22b]. **Matrices** [FdCP20, KLS21, AG21, AP20, AKL⁺21, ACG⁺21, ANBK22, AS20b, Ala21, AdL21, Alf20a, ADMZ21, AAMR20, ACOM21, ABW22, APNP⁺21, BS20b, BDNO20, BS20d, BDK21, BPZ21, BEF20, BS20f, Bar21b, BDGY21, BHBO21, BdPS21, BJ20a, BC21, BR22, Bez22, Bib22, BDHS22, Bol22, BFPS21, Bou21, BM20, BD21b, BLS20, Bur20, Bur21, CRR20, CRSY22, CCU21, CC22a, CEJM21, CDM21, CL20, CS21, CHY20, Che21, CZ22b, CJ20, CCK21b, CCP22, CCS22, CCKM22, CW20, CMT21, CIM22, CT20, CK21, CESS21, CP22, CKM20, Cos20a, Cos21, Cos22, CS20, CCL21, DGS20, Dew21, DMQD20, DGS21b, DF20c, DF22, DG22, EGJP21, EHS22, EGV20, FCLP22, FR21, Fik20, FP21, FLT20, FG20, FG22, GS21a, GA21, GR21, GW22, Gil20, GS21b, GK20, GM20, Goe21, GT21]. **matrices** [GvRR21a, GvRR⁺21b, GD20, GPR20, GZ20b, GP20, HW21a, HS22, HLZ17, Hou20, Hu21, HL20, JLX22, KT21, KKP21, KK20b, KK22a, KŠ22b, Kli20a, Kli20b, KPP21, Kol21, KFS21, KN20, Le22, LLW20, LF20, LH20, LLW21, LW21b, Lim21, Loe21, Los21b, Lub22, LMR21, Lyu20, MPR22, Mao20, MMV21, MRZ22, MR21a, MSZ21, MORŠ21, MS20a, MT21b, MC21a, MRV20, Mig21, Moh22, Moh20, NS21, Ner20, OP21, PQ22, PSAPNV20, PW21, PW19, PW20, Pri22, RS21a, RKBA21, RSS21, RX21, Rub21, Rub22, SS21a, ST22, ŠH21a, Sha22, SS21c, Shi21c, Shi22, Sim20, Sra21, SS20, SSvW20, Tei22, TBH20, VS20, Var21, VMB22, Vit21, VB20, Wan21, WW22, Wei22, Xie21, YZ20, Yan21, Yaz21, ZM21, ZZ20, ZW20, ZFZ20, ZBCI21, dC21, dlCP20, dlCS21, ō110MM⁺22, vRvSTT21]. **matricial** [FKM20, Kim22]. **Matrix** [ABC⁺22, CKLL20, Cra21, CMR21, GW20, Jon21, Kis22, ZK21, AT21, ADGK21, AK20, ABG20, AGV20, AdlC20, BBG21, BS20e, BJP21, BR20a, Bar20, BR20b, BT20a, BFMS21, BBS20, BFPS21, BM22, CP20, Car21, CZ22a, CLW22, CAJ21, CN21b, CMP21, CESS21, Cob22b, Cos20b, DMS20, DZCY22, DLL20, DP21, DAG21, DN20, Dra22, DGS⁺21a, FM22a, FMR20, FISW21, FGDY20, FM20b, FG20, FKK⁺21b, GA22, GM22, GKS21, GK21, GZ20a, GRR22, GMP22, Han21, HW20, HLS21a, JLL20a, KCPMNS21, Kim20, KIS21, Kop20, Kov21, KP21, LNN⁺20, fLLV20, Li22, LDSS20, LHZ21, MMW21, MC21b, ME21, MP21, MP20b, NPkT21, dSP20a, QCCS21, Rob20, RB22, Ruž21, SK21a, SL20a, ST22, Sat21, SNK22, Skr21, Sta21, Ste22a, TL21, Uch21, Uru22, VdSPdS20, VB20, WCKQ20, WZL21, Wer22, XY20a]. **matrix** [XZ21, XWT20, Yan22, ZG21, tHvdM21]. **matrix-tree** [GRR22]. **matrix-weighted** [Han21]. **matrixwise** [DFH⁺20]. **max** [Jon21, KZPH22, MPS22, MP20b, TV21, WFSS20]. **max-min** [MP20b]. **max-plus** [Jon21, WFSS20]. **maxima** [PSZ21]. **Maximal** [Ere21, APNP⁺21, CZG21, PSAPNV20]. **maximize** [Li20b]. **Maximizing** [HLS21b]. **Maximum** [ABW22, EG20, Yos21, ADvdH21, AHLvdH21, BCM21, CLL20, CLT22, CKM20, LW21c, SG20, WG20a, WYF⁺20, WS22, YD21]. **May** [Ano20-62, Ano20-61, Ano21-50, Ano21-52, Ano22-42, Ano22-43]. **Mazur** [BS21a, Ban22]. **McCarthy** [BL20]. **McEnteggert** [CZ22a]. **McKay**

[BBCD21, QJW20]. **Mean** [LV22, CMM20, Ghi20, GLP21, GL22a, LL21b, LMW21]. **means** [BGOO21, CKLL20, CIM22, DF20c, DF22, GLT21, HK20, LL21a, LS20a, PV21a, Uch21]. **Measure** [BHHP21, EAHS21]. **Measure-theoretic** [BHHP21]. **measures** [FG20]. **Measuring** [A EGL21]. **median** [MC21a]. **mesh** [EGL21, SZ21, SZ22a]. **Mesner** [GF20, Mar21]. **method** [BWW21, EN22, GP21, GD20, Har22, LG21b, Pra20, SWW22, WCS20, XX20]. **methods** [DAG21, Gal21, KKM22]. **Metric** [BCR20, BGLR22, CXZ22, DF20b, NPHT20, Oli21]. **Metrics** [Sra21, Min22]. **Min** [TV21, MP20b]. **Min-max** [TV21]. **Minimal** [EGC21, GS21b, ADMZ21, BP20, DPR20, FM22a, GL21, GZZ21, HP22, IdSSV21, MRV20, MO20]. **Minimal-norm** [GS21b]. **minimality** [Koz21]. **minimax** [FP20, SS21c]. **minimization** [fLLV20]. **minimizing** [UZ21]. **minimum** [BZZ22, FM22b, FdCP20, MAG21, MMN22, ZWL20a]. **miniversal** [FKK⁺21b]. **Minkowski** [LF20, ZJCA20]. **minor** [WCF21]. **minors** [BDNO20, FMR20]. **Mirsky** [HR20]. **Mixed** [AGNN20, LLL22, ABR⁺22, Ans21, BBCD21, GL21, KB22, KSY21, WFL20, YGW20, YWF21, ZW20]. **mixed-unitary** [GL21]. **Möbius** [Kli20a]. **model** [BDSS21, CZ20b, GQZ20, LM22b]. **modifications** [MPRS21]. **module** [BBNS22, Mur22, XY20b]. **modules** [EGL21]. **moduli** [ABHR22]. **modulo** [JMP21a]. **modulus** [MR21a]. **moment** [Cia22, EAHS21, FKM20, Kov20, Zal22]. **Momenta** [dIPG21]. **Moments** [BCR20]. **monoid** [Got20]. **monoids** [Wie22]. **monomial** [SDS21]. **monomials** [KLR22]. **monotone** [JLM20a, JLM20b]. **Monotonicity** [BJ20a, PTD22, CESS21]. **Moody** [FKM22]. **most** [ADvdH21, AHLvdH21, DGS⁺21a, NdLO21, dLMO20]. **MRD** [GL20a, MMZ20]. **MRD-codes** [MMZ20]. **MRI** [Sar21]. **MSE** [Skr21]. **multi** [AKPS19, DO22, KAPS20]. **multi-angle** [DO22]. **multi-dimensional** [AKPS19, KAPS20]. **Multidimensional** [CW20]. **multilevel** [HT22]. **multilinear** [BFMS21, FPR20, PSRS20, Skr20, Vit21]. **multipartite** [SD21a, SD21d, TLC20]. **Multiple** [VZ20, CV21, CI21, Hal20, LF20, Mao20]. **multiplication** [HS20]. **Multiplicative** [CI21]. **multiplicities** [AGV20, Iop20, KL21b, LL21e, SD21b]. **multiplicity** [AvDF20, CH21, TWW20, TW21, TJ21, WWJ20, WFGT20, WZW⁺21, WZT20, XWT20, ZW22]. **multipliers** [Skr20]. **multisets** [HHS20a]. **multisttructures** [Pat20]. **multivariable** [CLY22]. **multivariate** [CI21, Cob22b, KN20, MP22, PV21a]. **Murdock** [Fik20, FP21]. **mutual** [AGK⁺21]. **mutually** [FG22]. **N** [KIS21]. **N-tessellable** [KIS21]. **Narayana** [YY21]. **Natural** [Sar21]. **Nearest** [AGV20, LHK20, SK21a, Yu20]. **Nearly** [CGP21, FRS21, FK21]. **negative** [Bas21, Moh22]. **network** [DN21]. **networks** [AD20a, AD20b, BBW20, CEM21, Est20, GN20, HNS21, KL21c]. **Neumann** [CHHS20, PPW20]. **neural** [HNS21]. **Newton** [ES20, KKM22, WCS20]. **Newton-like** [ES20]. **NIEP** [JMP21b]. **Nil** [Šte22b]. **Nil-clean** [Šte22b]. **nilpotent** [BFPS21, BM20, BE20, BDV21, CL20, CdGS12, CdGS20, CMR20, FMS21, GJV20, KK20a, LM22a, MORŠ21, dSP20a, SSvW20, TBH20]. **NMF** [Pol20]. **No** [LW21d, ADGK21, TCC21, Yos21, ZWF20, ZHG21]. **nodes** [BDGY21, KN20]. **noisy** [CW21]. **Non** [BZZ22, Eld22, JN22, LS20b, BGS22, BS21a, CL21, FM22a, GNP22, GK21, GM20, GLZ21, KKSv21, KKS21, Lee20, LG21a, PR22a, PV21b, SK21a, SS22, TL21]. **non-backtracking** [GK21, KKS21].

non-bipartite [GLZ21, LG21a]. **non-commutative** [PR22a, SS22]. **non-cyclic** [CL21]. **non-degenerate** [GNP22]. **Non-group** [Eld22]. **non-Hermitian** [GM20]. **non-invertible** [FM22a]. **non-isospectral** [PV21b]. **Non-minimum** [BZZ22]. **non-orthogonal** [TL21]. **non-prime** [SK21a]. **Non-singular** [LS20b]. **non-smooth** [BS21a]. **non-symmetric** [BGS22, Lee20]. **Non-unital** [JN22]. **non-zero** [KKSV21]. **nonassociative** [KUZ22]. **nonbipartite** [BP21a]. **noncommutative** [Pre20]. **Nonconcavity** [AC20a]. **Nondegenerate** [KLLS22, CFSiT20]. **Nonderogatory** [BM20]. **nonhypoenergetic** [ADGKM21]. **Nonlinear** [Cos20b, DMQD20]. **Nonnegative** [JJS20b, AAMR20, Arl20, CCU21, CP22, DYB20, GR21, KZPH22, Kol21, LH20, RX21, vRvSTT21]. **Nonsingular** [SZSMB20, BJP21]. **nonsingularity** [Che21]. **nonstandard** [RAK21]. **nonsymmetric** [Gal21]. **Nontrivial** [HPSZ21]. **nonzero** [CV21]. **Nordhaus** [CLM20]. **Norm** [CLY22, FLT20, ANBK22, BM22, CKOS22, GMR21, GS21b, JLM20a, JLM20b, KPP21, LWW22, Mis22, NNSS20, Sin21]. **Normal** [BS20e, CLLK21, DHR20, RW22, Kov21, KFS21, LL21c, Wan21, dlCS21]. **normalized** [AMZ21, SD21b, TWW20, TW21]. **normed** [IOT21, KNS20, Wój22a]. **norms** [BDSS21, BLR21, CI21, DLL20, FISW21, GG21, PSRS20, WW22]. **Note** [Ano21-49, Bib22, Csi22, YLZH21, CMP21, DLL20, FM20b, HR20, Han22]. **Notes** [BS20a]. **November** [Ano20-71, Ano20-57, Ano21-54, Ano21-56]. **NP** [Shi21b]. **NP-complete** [Shi21b]. **Null** [JMP21a, Wer22, HMPT20]. **Nullities** [EGV20, OdFVM21]. **nullity** [ADvdH21, AHLvdH21, CL22, CLL20, CLT22, LW21d, WG20a, ZWT21]. **nullspace** [ACG⁺21]. **number** [BBG21, Bar20, Bas21, BP20, BR21, CRSY22, CDG21, DP21, DW21, FCLP22, FM22b, Fio20, Goe21, HHD20, HLX20, HXLL21, HW21b, Kli20b, fLLV20, LQ21, LZ20, MS20b, MP21, PK21, PZ20, Pra20, ŠH21b, TFT20, WWJ20, WYF⁺20, WYQ21, XWT20, XLYS20, YYS⁺21, ZXL20]. **number-constrained** [fLLV20]. **numbers** [ACLS20, ACOM21, CV21, ES20, Gal21]. **Numerator** [Bur20, Bur21]. **Numerical** [DK21, GWW21, GW22, BDK21, BdPS21, BP21b, CCH⁺21, CHSW22, CDM20, CDM21, COB22a, CN21a, CN22, Cos20a, Cos22, CLY22, GW20, KS20a, MXZ20, Naj20, OM20, PK22, PW21, QSH22, RAK21, RW21a, ZW21, ZS22]. **Numerically** [ANAS20]. **Numerorum** [dC21]. **nut** [DS22]. **obstruction** [HLS21a]. **obtained** [Goe21, GKLZ20]. **October** [Ano20-60, Ano20-72, Ano21-55, Ano21-57, Ano22-52]. **Odd** [BBNS22, LG21a]. **Odd-quadratic** [BBNS22]. **ODEs** [BCOvdD22]. **Off** [MRZ20, DL22, TJ21]. **Off-diagonal** [MRZ20, TJ21]. **off-grid** [DL22]. **on** [DL22]. **one** [Alf20a, BR20b, BFPS21, CJ20, CAJ21, CMT21, DH21, FKMM21, GJV20, JMP21b, KMNP20, LWW22, LWH21, ZS22]. **one-dimensional** [BFPS21]. **one-way** [KMNP20]. **onto** [CVV21]. **open** [GAM20]. **operations** [CMM20]. **Operator** [Uch21, AHV20, BDK21, Che22, CLY22, EMŠV22, Fra22, JN22, JLM20a, JLM20b, LS20a, MS22, PV21a, Shi20a, SZ20]. **Operators** [AGK⁺21, BKR⁺20, ĆD20, TT21, AdF20, ACM20, AG15, AG20, BDSS21, BFPS21, BKS⁺21, Bot21, CFSiT20, COB22a, CLY22, DH21, EJL20, FPR20, Fek20, GWW21, GS22, JJS20a, JKX20, JLM20a, JLM20b, KK20a, Mag22, MS21, MP20a, Min22, MXZ20, Naj20, OM20, Pan21, PPŽ21, Pan22, QSH22, Rao21, SH20,

TWD20, TD22, XY20b, ZW21, hB21].

Optimal [JLX22, KPP21, NMS20, ANAS20, FRS21, LM22b, SC20a, Ste21b, WW20].

optimization [GLS22, KKM22, Onn21].

optimized [RW21b]. **Optimizing** [PS22].

optimum [TFT20]. **orbit** [CL21, HMS21].

orbits
[BL20, GLT21, KL21a, Poo20, SZ21, SZ22a].

order [BDNO20, BW21, BCOvdD22, CLL20, CLT22, Coh20, EG20, FHMP21, FHMP22, FdCS20, GF20, LS22, LH21, hLqJ21, MC21b, Mis20, Ruž21, SH20, Uru22, WG20a, YK21, ZWT21, ZBdAF20]. **order-**
[BDNO20]. **ordered** [GZ20c]. **ordering**
[YOV21]. **orders** [BW22, DHH⁺20].

orientation [YWF21]. **Oriented**
[QWW21, Sta20b, AMZ21, GL20b].

Orthant [PSZ21]. **orthogonal**
[AP20, CS20, FR21, FK21, GIJM22, HWK21, MC21a, Mor22, Pet21, Sta21, TL21, VS21].

Orthogonality [Pan20, RSS21, AGK⁺21, CPTP21, Ham22, Wój22a]. **Orthonormal**
[Mag22]. **oscillatory** [ZM21]. **other** [Kin21].

output [DK21, FM22a, WES21, ZK21].

ovals [BMS21]. **over-relaxation** [BHD⁺21].

overdetermined [SV21]. **overlapping**
[EGC21]. **ovoidal** [Adr22].

packings [Kin21]. **Pages** [Ano20-63,
Ano20-65, Ano20-50, Ano20-52, Ano20-55,
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Ano22-43, Ano22-52, Ano22-49, Ano22-57].

pair [ADGK21, TJ21]. **pairing** [KW20].

Pairs
[BFPS21, GMP22, Mag22, SZ20, TT21].

Paley [Sat21]. **Palindromes** [HS20].

Palindromic [Pet21]. **paradox** [Cia20a].

parallel
[Arl20, Han22, TWD20, TD22, Zal22].

Parallelization [IB22]. **parameter**
[EN22, Fik20, FP21, KP22]. **parameters**
[AAFT22, CZG21]. **Pareto** [BS20c].

Parlett [WW20]. **Parseval**
[KAPS20, AKPS19]. **part** [BBNS22, Buc20].

partial [AR21, DHH⁺20, Li22, YWF21].

partitioned [Kad20, Wei22]. **partitions**
[AHZ22, AS20a, DF20a, FG22, LW21a,
LDW21, Mif21, RFP22, ZvD21]. **parts**
[Alt22]. **Pascal** [Cob22b]. **pass** [LY20].

Passive [Lew21]. **path**
[BJ20a, Mlo22, dSP20a, Ste21a].

path-connected [dSP20a]. **paths**
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[BES21, JWZ22]. **patterns**
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PCA [NNS20]. **Peled** [CLwW22]. **Pell**
[ACOM21]. **pencil** [Bar20, Fra22, MP21].

pencils [ADGK21, AK20, AHV20, BDRS20,
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pentagon [GLZ21]. **Perfect**
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WZW⁺21, ZHW21]. **periodic**
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Permanent [GS20b, ABW22]. **permanents**
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permutation [DF20a, VB20].

permutations [OSC20]. **perplectic**
[AdlCPS20, dICS21]. **Perron**
[ACD22, CA22, Cia22, KZPH22].

Persymmetric [VS20]. **Perturbation**
[FKK⁺21b, VCR21, AG21, AK20, Bar20,
BLMT21, CI21, LHZ21, MMV21, SL21,

TJ21, WW20, hB21]. **Perturbations** [Gil20, BDRS20, BR20a, BR20b, DH21, GA21, PS22]. **perturbed** [MP21]. **Pfaffian** [Bär21a]. **Phase** [IOT21, ZRQK22, EL20]. **Phase-isometries** [IOT21]. **Phase-Rank** [ZRQK22]. **phases** [CDD21, WCKQ20]. **physical** [FM22a]. **PI** [GKK⁺20]. **PI-eigenfunctions** [GKK⁺20]. **pivot** [PTD22]. **placement** [SV21]. **planar** [Ere21, GN20, UZ21]. **plane** [Hom20, NYW22]. **planes** [BS20f, CLZ22]. **platform** [KCML20]. **Play** [HNS21]. **Plug** [HNS21]. **Plug-and-Play** [HNS21]. **plus** [Jon21, WFSS20]. **Podle** [Soł20]. **point** [BS20e, BM22, CVV21, MPS22, RW21a, Win21, Zem22]. **points** [CCK21a, Mañ22, ŠH21b, Shi22]. **Poisson** [BE20]. **polar** [CGP21, Pat20]. **Pole** [SV21]. **Polya** [GS20b]. **polygonal** [CHSW22]. **Polyhedral** [May21]. **Polynomial** [Cav21, KS20a, Bol22, CB21, Cos20a, Cos22, DS20, GLS22, dAGK21, GZ20c, HCZ20, PS22, SK21a, Sud22, Uru22, VS21, VdSPdS20, Zhe21]. **Polynomials** [CP22, Adr22, BHBO21, BGOO21, Bur20, Bur21, CP20, CLW22, DN20, Fio20, FM20b, GA22, GFD21, HHS20a, HHS21, JL22, Kad20, Lee20, LHK20, LMR21, MPR22, MP22, MMW21, Mur22, Oli21, Pet21, PZ20, RB22, SW21, TV21, Vit21, WZL21, YY21, YLZH21]. **polystochastic** [CW20]. **polytope** [CC22a, Yu20, vED22]. **polytopes** [CCK21a]. **poset** [CMR20]. **posets** [CCKM22]. **positional** [PV22]. **positive** [ANBK22, AL21, Bar21b, BCE21, BHMU20, BKR⁺20, BS20g, BLS20, CRR20, CZ22b, CIM22, Fek20, FOR22, FM20b, GT21, GD20, Har22, IB22, Kol21, LV22, Le22, LWW22, Lim21, LWH21, MMV21, Min22, Sim21, Slo20, Slo21a, Sra21, ZFZ20]. **positive-definite** [CIM22]. **Positively** [LR21]. **Positivity** [GPR20, AC21, BGOO21, FJS17, FJS21, JWZ22, MMW22, tHvdM21].

Positivstellensatz [SS22]. **post** [BE20]. **post-Lie** [BE20]. **Potent** [GK22a]. **potential** [CIM22]. **potentially** [Cav21]. **Power** [Dom20, CIM22, DF20c, LL21a, MS21, SSvW20]. **powers** [FJS17, FJS21, FISW21, GW20, KCPMNS21]. **preconditioner** [dAdCG⁺21]. **prediction** [BBW20]. **Preface** [AHKT21, DKM⁺21]. **prescribed** [APNP⁺21, AGV20, BPZ21, CCU21, CDG21, LQ21, ZXL20]. **presentations** [BR21]. **preserve** [CP22]. **Preservers** [DHH⁺20, PR22b, Poo20, GK22a, Ham22, LMW21, QSH22]. **Preserving** [GA21, AGK⁺21, Cos20a, Cos20b, Cos21, GJV20, GJKM21, GMP22, KFS21, MPRS21, Pan20, Pan22, Ruž21]. **prime** [Kli20b, LS20b, LP21, SK21a]. **primitive** [HW21a]. **primitivity** [AKL⁺21]. **principal** [BJ20a, BLR21, FMR20, GQZ20, PTD22]. **principle** [CZ20a, FP20, ZX20]. **probabilistic** [CMS21, LM22b]. **probabilities** [PSZ21]. **problem** [AAMR20, BGS22, Beh21, EAHS21, FM22a, FHLS22, FQ20, GA22, GR22, GS20b, Hal20, Har22, JS20, KKM22, Kim22, Kis22, KS20b, KP22, Kov20, LDZ21, LOŠ21a, MS20a, NYW22, dSP20b, Pol20, QCCS21, Row20, SS21c, SZ22a, Ste21a, WES21, XX20, Zal22, ZWF20, ZX20, dBS20, dC21]. **problems** [BLMT21, Boj21, CRR20, CEM21, CKLL20, DMQD20, EN22, GK20, fLLV20, MMW21, MG21, MC21b, PSAPNV20, PS22, SL20a, WCS20, YGW20, ZKLS20]. **procedure** [MS20b]. **processes** [EGJP21, GZ20a]. **Procrustes** [BGS22, CRR20, Min22]. **product** [AEGV21, AdlC20, BB22, BJ20a, BKS⁺21, BKR⁺20, CS20, DYB20, Fek20, FKMM21, HY20, HK20, Kak20, KMNP20, LH20, MQW20, PS20, Ste21b, Yos21]. **production** [EHS22]. **Products** [GT21, AOCM20, BC21, BDHS22, BNS22, DGET21, FJS17, FJS21, GJV20, Gow20, HW20, HLZ17, Hou20, Jai21, KT21, QSH22].

programming [Ans21]. **programs** [LPV21]. **progression** [BLS20]. **project** [MMP21]. **Projection** [CVV21, GOZ21, GNR20, LHZ21]. **projections** [BKRS20, BDI20, Fra20, HPSZ21, LPV21, Poo20, XY20b]. **projective** [BS20f, CLZ22, Mañ22, NYW22]. **projectors** [BR22]. **Proof** [CLL20, CJ20, HD22, LZ21b, Mur22, SD21a, SD21d, SD21c, BD21a, CZ22b, GAMA20, KW20, SW21, SL20b]. **Proofs** [KK20b]. **Properties** [DO22, QSH22, ACOM21, BC22, BDGY21, CLRT22, CJMP22, CZ22b, CESS21, FHLS22, FOR22, GA21, GK21, GPR20, JJS20a, LZ21a, MPRS21, Tar20, TD22, WSW20]. **Property** [CN20a, AG21, BS21a, Ban22, BP21a, BW22, Cra21, CMR21, CS20, Dra22, LOS20, MC21b, MRT20, Ruž21, Sat21]. **proximal** [HNS21]. **Pseudo** [BMS21, AdlCPS20, ACLS20, Bol21, DG20, HS20]. **pseudo-embeddings** [DG20]. **pseudo-inverse** [Bol21]. **pseudo-involution** [HS20]. **Pseudo-ovals** [BMS21]. **pseudo-spectral** [ACLS20]. **pseudo-unitary** [AdlCPS20]. **pseudospectra** [RKBA21].

Q [NdLO21]. **Q-integral** [NdLO21]. **QLP** [WX20]. **quadrangle** [DG20]. **Quadratic** [Mlo22, dBS20, BBNS22, BLMT21, CHHS20, GA22, Ger20, Har22, HLS21a, Hua22, IdSSV21, MZ22, NYW22, RB22, Uch21]. **quadrature** [BF21]. **quadrics** [BMS21]. **Quantitative** [hB21]. **Quantitatively** [AL21]. **quantities** [CMM20]. **quantization** [FISW21]. **Quantum** [LL21a, AHM20, CJMP22, CDS21, CFKO21, God21, KS22a, KIS21, KMNP20, KSY21, Li20a, LIW20, OSC20, SMA20, Shi21a, Sol20, Zha22]. **Quasi** [CR21, GP20, Rob20, Yan21, Yan22]. **quasi-Cauchy** [Yan21]. **Quasi-ergodic** [CR21]. **quasi-hereditary** [Yan22]. **quasi-periodic** [GP20]. **quasi-Toeplitz** [Rob20]. **quaternion** [BBC⁺22, Mig21]. **Quaternionic** [CDM21, BG20, CDM20, GvRR21a, NS22, RAK21]. **quaternions** [ACLS20, LDZ21]. **question** [ACG⁺21]. **questions** [GAM20]. **quiver** [ABHR22]. **quotient** [PS22]. **quotients** [MS20a, Zak21].

radical [FMS21]. **radii** [CMS21, LZ21b, OM20, SD21c, XW21, YD21, ZLG20]. **radius** [ASS21, AC20a, BDK21, BHHP21, BP21b, CLZ20, CWZ22, CLM22, CDG21, CDG22a, Cos20a, CLY22, DYB20, DPR20, DW21, Ere21, FLRS20, FW22, GLHNW20, GZ20b, HLS21b, KLLW21, LW20b, LC20, LQ21, LW21b, LZ20, MT21b, MLH22, MR21b, MXZ20, Naj20, O.21, PK21, QSH22, SWW21, Sta20b, SD20, WSW20, WG20b, WCF21, WS22, YYS⁺21, ZW21, ZXL20, ZZ21, ZHG21, ZHW21, ZKLS20, ZWL20b, ZBWL20, ZvD21]. **Rado** [Adr22]. **Randic** [AA21]. **Random** [GNP22, LPV21, BW22, Coo20, FR21, HW20, Kop20, LLW20, LW20a, LLW21, NS21, RW22]. **Randomized** [WX20, BWW21, LY20, LG21b]. **range** [CHSW22, CDM20, CDM21, COB22a, CN21a, CN22, CF22, GW20, HHS20a, Ham22, RW21a]. **ranges** [BdPS21, CCH⁺21, GWW21, GW22, PW21, RAK21, ZS22]. **Rank** [BR20b, BES21, BCR20, HY20, SG20, ZRQK22, AMR20, BDRS20, BR20a, Bar20, BZZ22, BdPS21, BT20b, BGLR22, CXZ22, CJ20, CAJ21, CMT21, Com21, CST21, DH21, DG22, EGC21, FGM21, GJV20, GL21, GF20, Got20, GLS22, HHD20, Kak20, KCPMNS21, KPP21, KST22, LS22, LDZ21, LW21c, LHZ21, MMN22, MC21a, MR21b, MO20, NPHT20, Oli21, PPŻ21, PW21, Rod21, Rub22, SK21a, Ste21b, TL21, XZWT20, dBS20]. **rank-1** [KPP21]. **Rank-Metric** [BCR20, NPHT20]. **Rank-one** [BR20b, DH21, GJV20]. **rankability** [CLS20]. **ranks** [BBS20, FdCP20, Rub21, Shi20b]. **rate**

[BWW21]. **ratio** [Hae21, Li20b]. **Rational** [Dew21, Rob20, ADMZ21, DMQD20, KW20, PQ22, Rub21, Var21]. **Rationality** [BNS22]. **ratios** [Nic20]. **Rayleigh** [PS22]. **rays** [Yu20]. **reachability** [Sch22]. **Real** [Moh22, RT21, Wei22, AL21, AdlC20, Bib22, EL20, IKLP20, Kol21, LNN⁺20]. **realising** [KŠ22b]. **Reality** [Bla20]. **Reality-based** [Bla20]. **realizability** [JJS20b, JS20, JMPS21]. **realizable** [AMS21, MM21]. **realization** [FM22a, Rub21]. **reciprocal** [BP21a, MT21b]. **Reconstruction** [ZW20, Sar21]. **recovery** [CW21, CZ20b, HMPT20, KS20b, LM22b]. **rectangular** [Kop20, MMV21]. **recursive** [Var21]. **reducibility** [MORŠ21]. **Reduction** [WES21, CB21, KSSW20, LH21, MS20b, SS22]. **Rees** [CDG22b]. **Refined** [BDK21, BR22]. **reflection** [RS21a]. **regarding** [ACG⁺21]. **region** [CAJ21, KK20b, KŠ22b]. **regions** [KK22a]. **regression** [CI21, GQZ20]. **regular** [AG21, AFSS20, AdF20, BDRS20, BR20a, Bar20, DF20a, FS20, GA22, GK22b, HO20, IKPR20, MP21, YK21, Zha22]. **Regularization** [Kov20]. **regularized** [DAG21]. **Reinhardt** [MT22]. **related** [BDI20, CMM20, Est20, FP20, JLL20b, Kli20b, LMW21, Li22, Mar21, MMW21, PV21a, Shi21a, Shi22, Sra21]. **relation** [CIM22, GMR22]. **Relations** [WFL20, ACSS22, Arl20, GJKM21, Lim21, SL21]. **relationship** [TFT20]. **Relative** [BLMT21, Shi21a]. **relaxation** [BHD⁺21]. **remark** [Bar21b, Shi20b]. **Remarks** [Tei22]. **removal** [JST21]. **Rényi** [DF20c, Shi21a]. **repeated** [JMP21b]. **repelling** [Est20]. **representation** [Bla20, CN22, PV22, SC20a, SW21]. **Representations** [AG15, AG20, ABHR22, CDD21, JL22, KMNP20, MRZ22, NPR22, PQ22, RT21, Shi21a, Wie22]. **residue** [KW20, NPkT21]. **residues** [Fra22]. **resilient** [KCML20]. **Resistance** [BEF20, Dev22]. **Resolvent** [Fra22, Zem22, AHV20]. **resolvents** [Fra20]. **resonant** [OSC20]. **respect** [AdlCPS20, CEM21, KKS21, RAK21, Sta21]. **restricted** [BD21b, CHSW22, Poo20, Sat21]. **result** [LLSV21]. **Results** [FJS21, BS20c, Fra20, Iop20, FJS17]. **retrieval** [EL20]. **revealing** [SG20, Ste21b]. **Reverse** [Pre20]. **Reversibility** [GL22b]. **Reversible** [BG20]. **revisited** [LIW20]. **Revisiting** [LS20c]. **reweighted** [CW21]. **Riccati** [Ruž21]. **Ricci** [Sic21]. **Richardson** [KK20a]. **ridge** [GQZ20]. **Riemannian** [ÁVKP20a, DAG21, KKM22]. **Riesz** [Fra20, GS20a]. **right** [DHH⁺20, FKK21a, Hal20]. **right-angled** [FKK21a]. **right-hand** [Hal20]. **right-star** [DHH⁺20]. **Rigidity** [KNS20]. **ring** [AT21, CPS20, NPR22, SSvW20]. **rings** [BS20f, Bol22, Ham22, HLZ17, Hou20, LP21, NPkT21, Pre20, Wer22]. **Rio** [AHKT21]. **Riordan** [Slo21a, Bur20, Bur21, CCP22, CCS22, CCKM22, Cob22b, Coh20, He20, LMR21, MMW22, Pet21, Slo20, Slo21b, YY21, ZZ20]. **Ritz** [RW21a]. **robust** [KCML20]. **Roe** [MT21a]. **role** [AFSS20, DN20]. **Roos** [Bru20]. **Root** [DN20, CA22, LHK20, SZ21, SZ22a, TV21]. **rooted** [Cia22, DR20]. **Roots** [BHMU20, GvRR⁺21b, Jon21, MZ22, dSP20a, PZ20, TV21, vRvSTT21]. **rotational** [NNS20]. **Ruelle** [Mor20]. **rule** [NWW20]. **Ruling** [JMP21b]. **Sachs** [CC22b]. **same** [CDG22a, MR21a]. **Sampling** [FR21, CEF⁺22, MB20]. **satisfying** [BKS⁺21]. **Saturated** [cRLY20]. **Scaffolds** [Mar21, LTTW22]. **scalar** [BKS⁺21]. **scale** [BW21, CHHS20]. **scaling** [FRS21, MS22]. **Scattered** [CLZ22, BCM21]. **Schatten** [Bot21, CI21, LHZ21]. **Schatten-** [LHZ21].

scheme [AHM20, KCML20, LIW20, SS20].
schemes [BMS21, LTTW22]. **Schmidt** [CLRT22, Min22]. **Schur** [BJ20b, Dev22, FKM20, Gow20, Skr20, TT21]. **Schwarz** [XX20]. **Secant** [KMZ20]. **second** [ABG20, BW21, BCOvdD22, CLM20, LWB20, LH21, MC21b, XLS20, YK21]. **second-order** [BW21, MC21b]. **secret** [KCML20]. **sector** [FLT20]. **sectorial** [AS20b, Ala21]. **Sedentary** [God21]. **segments** [LZ20]. **Seidel** [ACG⁺21, BWW21, GKLZ20]. **select** [CRSY22]. **selection** [Shi21b]. **self** [AC21, CCK21b, DH21, ES20, IMT20, MMP21, PPŽ21, Pan22, SZ22a, SZ20]. **self-adjoint** [DH21, PPŽ21, Pan22, SZ20]. **self-adjointness** [AC21]. **self-conjugate** [ES20]. **self-dual** [SZ22a]. **self-inverse** [CCK21b]. **self-loops** [IMT20]. **self-similarities** [MMP21]. **selfadjoint** [Arl20, CFSiT20, GvRR⁺21b, SH20]. **Semi** [CCK21b, AdF20, MRZ22, MXZ20]. **semi-Hilbertian** [MXZ20]. **Semi-involutory** [CCK21b]. **semi-regular** [AdF20]. **semi-simple** [MRZ22]. **semidefinite** [ANBK22, BGS22, BKR⁺20, CKM20, Fek20, FM20b, GNR20, HMPT20, MMN22]. **semifields** [LS22]. **semigroups** [AG15, AG20, BS20d, CFKO21]. **Seminorm** [MXZ20, Wój20]. **seminorms** [CG20]. **semisimple** [KK20a]. **sense** [ACM20]. **sensitivity** [Mis20]. **separable** [GLS22]. **Separating** [CL20]. **September** [Ano20-49, Ano20-64, Ano21-65, Ano21-60, Ano22-49, Ano22-57]. **sequence** [PSRS20]. **sequences** [FKM20, He20, PW19, PW20, VS21]. **Sergeichuk** [SZ22a]. **series** [Bur21, Dom20]. **set** [BPZ21, CRR20, Cia20b, FPR20, LHK20]. **Sets** [HHS20a, CP20, CLZ22, CAEH⁺22, ES20, GZ20b, HHS21, HW21a, LNP21, MM21, MMP21, MRT20, Pat20, RW21a, RW22, YLCB21]. **setting** [FP20, JST21]. **several** [DF22, LLH20, Naj20, QSS22, ZM21]. **Shannon** [Sra21]. **sharing** [KCML20]. **sharp** [MLH22, MKE⁺20, WG20a]. **sharpened** [LS20c]. **Sheffer** [LMR21]. **shift** [COB22a, CN21b, CKLL20, EJL20]. **short** [CWZ22, SW21, SL20b]. **shortest** [Ste21a]. **Shorting** [Arl20]. **sided** [BB22, WW20]. **sides** [Hal20]. **sigma** [FISW21]. **Sign** [BD21b, CS20, RX21, AG21, BCOvdD22, JWZ22, KK22b, Shi20b]. **Sign-restricted** [BD21b]. **Signed** [ADvdH21, HSS⁺21, RS21b, AFG⁺21, AHLvdH21, CH21, CCK21b, LW20a, LW21d, MMN22, OJQ20, SZ21, VB20, WH20, WYQ21]. **Signless** [CWZ22, ZWL20a, AdL21, CLZ20, HLS21b, KLR22, LWB20, LQL21, MT21b, Obo22, SSS21, VTBC20, XW21, ZXL20, ZHG21, ZWL20b]. **similarities** [MMP21]. **similarity** [AdlCPS20, AR21, CN21b, JKX20, TBH20]. **Simple** [GG21, dlCS21, Eld22, IIM⁺21, KLLS22, MRZ22]. **simplex** [PSZ21]. **simplices** [FS20, Dev22]. **simplicial** [KMZ20, Kni20, KL21c]. **Simplifying** [Zhe20]. **Simultaneous** [Her20]. **Single** [LY20, CLY22]. **Single-pass** [LY20]. **Singular** [Djo21, CV21, CJ20, CAJ21, Cos21, FISW21, Fra22, KK22b, KP22, KN20, LS20b, LHK20, LH21, Loe21, MQW20, VCR21, ZS22]. **singularity** [AHV20, GMP22]. **Sinkhorn** [CN20b]. **SISO** [WES21]. **Six** [CdGS12, CdGS20]. **Six-dimensional** [CdGS12, CdGS20]. **size** [CDG22a, FPR20, FW22, MLH22, Rob20, SWW21]. **skeleton** [KLR22]. **skew** [BHBO21, Com21, DGS21b, EGV20, GS21a, KT21, MP22, PS20, Pri22, QSH22, QWW21, SS21a, Sta20b, TFT20, Uru22, dlCP20]. **skew-eigenvalues** [TFT20]. **skew-Hamiltonian** [SS21a, dlCP20]. **skew-involution** [PS20]. **skew-symmetric**

[Com21, DGS21b, EGV20, GS21a, KT21, Pri22, Uru22]. **slice** [AdF20]. **small** [Alt22, HW21b, PSRS20]. **smallest** [Csi22, KN20, LW21a, Loe21, LLL22, Obo22, SWW21, WWT20, ZLG20]. **Smirnov** [AOCM20]. **Smith** [BS20e, Wan21]. **smooth** [BS21a, Lub22, MP20a]. **SNIEP** [MM21]. **solutions** [BS21b, KST22]. **solvability** [MP20b]. **solvable** [LNN⁺20, LS20b]. **Solving** [EN22, BF21, fLLV20]. **Some** [AGH20, ABR⁺22, Fra20, GK21, Gow20, Iop20, KUZ22, LHFL20, LH20, Naj20, Slo20, Slo21a, WG20b, AAMR20, APNP⁺21, BD21a, BdPS21, BDI20, CEJM21, Ces20, COB22a, GLLZ20, GAM20, GPR20, JLL20b, KZPH22, Li22, Los21b, OP21, PZ20, Shi20a, TLC20, TWW20, WSW20, ZJCA20]. **space** [AHV20, BS21a, Ban22, BKS⁺21, CFSiT20, CGP21, FP22, HMPT20, Mañ22, OM20, dSP20a, ZW21, hB21]. **spaces** [ANAS20, ABHR22, BFMS21, BDI20, BKR⁺20, CG20, ĆD20, Djo21, FPR20, Fek20, Fra22, GKS21, IKLP20, IOT21, JN22, KNS20, MP20a, MORŠ21, MXZ20, PSRS20, Rao21, VMB22, Wój22a]. **spanning** [BEF20]. **sparse** [AK20, ABW22, BR22, CW21, HMPT20, Kli20b, KS20b]. **sparseness** [GL20a]. **Specht** [Che22]. **special** [GPR20, Mor22, TLC20, AHKT21]. **specified** [AK20]. **Spectra** [BBC⁺22, CCPKP20, DF20a, DH21, JLL20a, AAMR20, AMS21, BS20c, CFKO21, Coo20, DDFM⁺21, GK20, HO20, HS22, JMP21b, KIS21, LW20b, SMA21, SB20, SS21b, Zha21, ZS22]. **spectrahedra** [CEF⁺22, May21, MT22]. **Spectral** [Bou21, CJMP22, DKL⁺22, FOR22, GK22b, GM20, KY21, LS20a, O.21, YYS⁺21, ZvD21, ADGK21, ASS21, AFSS20, AdST22, ACLS20, AC20a, AEGL21, BC22, BHP21, BDGY21, BR22, Ces20, CLZ20, CWZ22, CLM22, CMS21, CZ20b, CDG21, CDG22a, DYB20, DPR20, DW21, Ere21, FLRS20, FW22, GS21a, GA21, GMR21, GLHNW20, GK21, GZ20b, GLZ21, HLS21b, KT21, KLLW21, KPP21, LC20, LMW21, LQ21, LW21b, LZ20, LOS20, LG21a, LZ21b, MSZ21, MT21b, MLH22, MR21b, PK21, ST20, SWW21, Sim20, Sim21, Sta20b, Ste21a, SD20, SD21c, WSW20, WG20b, WCF21, WS22, XW21, YD21, ZXL20, ZWF20, ZW20, ZLG20, ZZ21, ZHG21, ZHW21, ZKLS20, ZWL20b, ZWL20a, ZBWL20, hB21]. **spectrally** [ANAS20]. **spectrum** [AGNN20, Ban21, BCFT21, CHT20, CGP22, Coo21, DR20, Fio20, FB21, HP22, LQL21, LLSV21, MPS22, QWW21, XY20c, YW22, ZK21, Zem22, Zhe20]. **spheres** [CVV21, Soł20]. **Spherical** [HW21b, Alf20a, BNS22]. **spillover** [ADGK21]. **spin** [AD20a, AD20b, FHMP21, FHMP22]. **splines** [BGOO21]. **split** [SSS21]. **spread** [BEHK22, Bib22, CL21, LMG20, MSZ21]. **spring** [UZ21, VS20]. **Square** [vRvSTT21, Bar20, Ghi20, VS20]. **square-integer** [VS20]. **squares** [Boj21, CW21, CKTP20, Hal20, Kor21, Lyu20, SC20a]. **Stability** [BCOvdD22, AEGL21, CW21, CLRT22, Cav21, KP21, LLSV21]. **stabilizing** [GG21]. **Stable** [Com21, ADvdH21, Cav21, CHY20, TV21]. **staggered** [KIS21]. **Standard** [KLR22]. **star** [CDM20, CDG22b, DHH⁺20, SS21c, GKK⁺20, KKS21]. **star-center** [CDM20]. **State** [NPR22, AHM20, ASG22, GL20b, KS22c]. **states** [CJMP22, CN20a, KMNP20, KS22c, SS22]. **static** [GS21b, ZK21]. **status** [JST21]. **step** [BDV21, LM22a, WCS20]. **steps** [CN20b]. **Stieltjes** [Kov20, YGW20]. **Stochastic** [KŠ22b, AKL⁺21, BC21, CZ20b, GK20, HT22, KK20b, KK22a, Pra20]. **Storage** [CLK21]. **strength** [HXL21]. **string** [YGW20]. **strong** [AGK⁺21, BHD⁺21, CS20, FHLS22, GS21c, LOS20, Wój22b].

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Anonymous:2020:PJd

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Anonymous:2020:PAd

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Anonymous:2020:PJa

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Evans:2020:NCS

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Esteban:2022:NPM

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Fallat:2021:CTP

[FJS21]

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Feng:2020:BSR

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Fickus:2020:HET

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Fernandez-Sanchez:2022:LLD

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Mainar:2022:ACW

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Morfonios:2021:CPG

[MPRS21]

C. V. Morfonios, M. Pyzh, M. Röntgen, and P. Schmelcher. Cospectrality preserving graph modifications and eigenvector properties via walk equivalence of vertices. *Linear Algebra and its Applica-*

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Mendoza:2020:SMH

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Marcoux:2020:DCS

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Marcoux:2022:DRS

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McKee:2020:SMQ

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Moslehian:2020:SNR

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M. S. Moslehian, Q. Xu, and A. Zamani. Seminorm and numerical radius inequalities of operators in semi-Hilbertian spaces. *Linear Algebra and its Applications*, 591(??):299–321, April 15, 2020. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379520300197>.

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