

# A Brief Bibliography of Publications about the Kepler Conjecture

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## Title word cross-reference

1 [ZCT<sup>+</sup>14]. 18 [Tal99]. 2 [IN07, ZCT<sup>+</sup>14]. 24 [BB16, CKM<sup>+</sup>16]. 3  
[IN07, LZLX10]. 8 [BB16, Via16].  $E_8$  [CKM<sup>+</sup>19].  $N$   
[CGV<sup>+</sup>03, CF10, Hau91, Hau95].  $R^d$  [PKC16].  $S$  [Kun92].

**-Cube** [Hau95, Hau91]. **-dimensional** [ZCT<sup>+</sup>14]. **-space** [ZCT<sup>+</sup>14]. **-units**  
[Kun92].

**12th** [AL01]. **15th** [MS02]. **16** [Hsi95]. **17th** [SBG04]. **18th** [HM05]. **1900**  
[Hil00, Hil01].

**2002** [MS02, STDH02]. **24-dimensional** [Kla19].

**3-dimensional** [Oes00]. **3-polytopes** [BH00].

**4th** [HY14, IEE07].

**6th** [BR07].

**82** [TS10b]. **88** [Mus98].

**95g** [Hsi95].

**accessible** [BDH<sup>+</sup>05]. **according** [Oes00]. **achievement** [BCR83]. **action** [Hsi01]. **addition** [TUS06]. **ADG** [BR07]. **Advances** [HSP00, MS02]. **advancing** [LTÜ00]. **aggregates** [ZRD<sup>+</sup>14]. **AI** [MS02]. **algebra** [Gar01a]. **algebraic** [Kun92]. **Algorithm** [Zin94, DFM17, DTSC04, LRCG16, Zau16]. **Algorithmic** [DTS05a]. **Algorithms** [CHH<sup>+</sup>01, SE92, SBH07, Hal03, Kao08, ZCT<sup>+</sup>14]. **along** [RT98]. **Amorphous** [PZ06, RT98]. **Amsterdam** [STDH02]. **Analysis** [AGM08, CJS92, BCR83, LJ13]. **analytic** [BDH<sup>+</sup>05]. **Analytical** [TJ09a]. **Analyzing** [SBH07]. **annual** [ACM01, AL01]. **Apollonian** [FS11]. **Appl** [Mus98]. **Application** [Zau16]. **applications** [CHH<sup>+</sup>01, DTS05b]. **Approach** [Cor02, Ano97, Gav08, Mus97, Mus98, Mus00, RZ12, ZSRB07]. **April** [STDH02]. **Arbitrary** [PKC16, LRCG16]. **Archimedean** [TJ09c, TJ09b, TJ10a]. **area** [AF06, BDH<sup>+</sup>05, CF10]. **arising** [Hal03]. **Arrangements** [Kup07]. **Arrow** [DFM17]. **Arrow-Hurwicz** [DFM17]. **article** [Hsi95]. **artificial** [MS02]. **ARVO** [BDH<sup>+</sup>05]. **Assisted** [Max91]. **Asymmetric** [CM00]. **Athermal** [SAF10]. **Atlanta** [Bil85]. **August** [BR07, FS07, HY14, HM05]. **Australia** [MS02]. **Australian** [MS02]. **Automated** [KU13, Wan99, BR07, FS07]. **Automating** [Edw16]. **Axis** [Wan00].

**back** [Jos12]. **Ball** [Tót53, Tót72]. **Balls** [Kup07]. **Based** [Cor02, Gav08, LJ13]. **basic** [LZLX10, ON09]. **Bath** [CAL<sup>+</sup>13]. **be** [NIS14]. **beat** [Sah06]. **behavior** [KGT15]. **Belgium** [SBH07]. **Below** [CM00]. **Bernal** [TS10b, TS10a]. **Best** [CS95]. **Bestimmung** [MPS02]. **Beweis** [Hen98]. **beyond** [TS10a, TS10b]. **bin** [ZCT<sup>+</sup>14]. **Biting** [LTÜ00]. **blueprint** [Hal12]. **bodies** [KK90, Min04, Tót08]. **Boltzmann** [KGT15]. **Book** [Mor05, Bra95, Gar01a]. **Boolean** [Hau91, Hau95]. **Bound** [CM00, Mud93, AF06, GEK11, Sah06]. **Boundary** [Zin94]. **Bounded** [Hau95, Hau91, ZCT<sup>+</sup>14]. **Bounds** [BN00, BN02, BN05, CE03, Hal06c, Lag02, MVG05, TS06, AGMW13, Hen05, Obu05]. **Box** [Cor02]. **branch** [RT98]. **Breakthrough** [Coh17]. **Brussels** [SBH07]. **bubbles** [CGV<sup>+</sup>03, CF10]. **bullets** [SvdW53].

**C** [Hsi95, Lag11b, Oes00, TL06]. **calculations** [CGV<sup>+</sup>03]. **Calculus** [CAL<sup>+</sup>13]. **Canberra** [MS02]. **Cannonballs** [Hal00]. **cases** [Hal06b]. **Cavity** [RZ12]. **centered** [GJT12, Kun92]. **cercles** [Ber93]. **Certification**

[AGMW13]. **Characterization** [MPS02]. **Chervonenkis** [Hau91, Hau95]. **CICM** [CAL<sup>+</sup>13]. **Circle** [FS11, Tót99, BS08, LMX19, Ber93]. **circles** [CK91, SHWP09]. **City** [SBG04]. **classic** [Gar01a]. **classification** [TS01]. **cleavage** [ZSRB07]. **Close** [Zin94, BCR83, JT85]. **closest** [Mar11, Min04]. **clumping** [NIS14]. **clusters** [VG01]. **CMAC** [Cor02]. **CMAC-Based** [Cor02]. **Coarse** [KGT15]. **Coarse-** [KGT15]. **codes** [HST10, LS71, Slo81, Tho79, Tho83]. **Coding** [CM00]. **collective** [LJ13]. **collision** [DTS05a, DTS05b]. **collision-driven** [DTS05a, DTS05b]. **colossal** [Gar01a]. **Combinatorial** [Cor01, AL01]. **combinatorics** [Sch79]. **Compact** [BW01]. **complete** [Tan79]. **completed** [BB14]. **Comput** [Mus98]. **Computational** [ACM01, STDH02, Gav08, ZSRB07]. **Computations** [Ano99]. **Computer** [Bil85, Gar12, Hen98, HZ00, JT85, Max91, CAL<sup>+</sup>13, Hal02]. **Computing** [IEE07, BDH<sup>+</sup>05]. **Conceptual** [Coh17]. **concerning** [Rén58]. **Conditions** [Zin94, Mát93]. **Conference** [FS07, HY14, MS02, STDH02, HM05, SBG04]. **confined** [CF10]. **Congress** [FVJT10, Hil00, Hil01]. **Congruent** [Kup07, CHH<sup>+</sup>01, Gro62, Min04]. **Conjectural** [TS06]. **Conjecture** [Ano99, Hal10, Hen98, Hsi95, TL06, AH75, BCR83, BB14, Bez97, BS70, Hal01a, HM10, HAB<sup>+</sup>15, HZ00, Hsi01, Mar11, Szp03c, Bez13, Hal94, Hal98, Hal02, Hal03, Hal04, Hal05, HF06, Hal06a, HHM<sup>+</sup>10, HF11, Hsi93b, Hsi93c, Lag02, Lag11b, Lag11a, Mus00, Szp03a, Mor05]. **Constructions** [TJ09a, TJ10b]. **Container** [Kup07]. **containers** [Sch06]. **containing** [Bra95, MPS02]. **convergence** [LJ13]. **Convex** [GW93, Gru07, Zon06, KK90, TK93, Tót08, ZD96]. **Cores** [BW01]. **cornered** [Kep66]. **correcting** [LS71, Tho79, Tho83]. **Correction** [BN05]. **correlated** [Zau16]. **correlations** [JT11]. **Covering** [B<sup>+</sup>04, CT06, Cor01, TGW89, Tót08, Rog64, Rog68, Sch79, TK93]. **Coxeter** [MPS02]. **Coxetersche** [MPS02]. **CPM** [AL01]. **Craig** [Che13]. **created** [TJ12]. **creating** [Zau16]. **crystal** [DSCT04, Gar12, Hsi01]. **crystal-growth** [Gar12]. **crystalline** [CEG10, HAEK<sup>+</sup>09]. **crystals** [Gar12]. **Cube** [Gen04, Hau95, Zon06, Hau91]. **cubic** [GJT12]. **cuboctahedra** [Zon13]. **Current** [Mar85].

**D** [IN07, LZLX10]. **Damped** [DFM17]. **d'après** [Oes00]. **December** [MS02]. **decomposition** [BCR83]. **deduction** [BR07]. **deformable** [CF10]. **Delaunay** [AGM08]. **Delone** [MVG05]. **Dense** [AM07, Che08b, CEG10, Gen04, Hal12, KEG09, KEG10, TJ09a, TJ09c, TJ09b, TJ10a, DSCT04, Hsi01, TJ10b, TJ12]. **Densely** [Ste99, HAEK<sup>+</sup>09]. **Densest** [BH00, BR03, Gro62, Hoy70]. **Densité** [Oes00]. **densities** [LZLX10, Zon13]. **Density** [BKM91, Mud93, MVG05, TS06, AH75, GEK11, Hal93, HST10, Lag02, NIS14, Oes00, SST08, Sch00, Sol67, ZRD<sup>+</sup>14]. **deposits** [Tót53, Tót72]. **Deriving** [AMB11]. **Designing** [SBH07]. **Designs** [He17]. **Detailed** [Hal06c]. **details** [DTS05a]. **diagram** [Gav08, HAEG11]. **Diagrams** [IEE07]. **dichteste** [Gro62, Min04]. **Dilemma** [Bun06].

**Dimension** [Hau95, CKM<sup>+</sup>16, Hau91, Oes00, PZ06, Via16]. **dimensional** [AH75, Ano97, Kla19, Lee67a, Lee69, Mus97, Mus98, Oes00, Rén58, SDST06, ZCT<sup>+</sup>14, vMFC09]. **Dimensions** [CS95, Max91, BB16, BS08, CGV<sup>+</sup>03, Hal93, SST08, TUS06]. **dimer** [CEG10]. **disasters** [Lep97]. **Discrete** [Zon06, Gru07, ZD96]. **discs** [Tan79]. **Disordered** [AM07, HAEK<sup>+</sup>09]. **display** [TKUG13]. **DML** [CAL<sup>+</sup>13]. **dodecahedral** [Bez97, HM10]. **Does** [Szp03b]. **domains** [LRCG16]. **Double** [KK90]. **Double-lattice** [KK90]. **dreizehn** [SvdW53]. **driven** [DTS05a, DTS05b]. **Dutch** [Str28]. **dynamics** [Bra95, DTS05a, DTS05b, LJ13]. **dynamics-based** [LJ13].

**Ebene** [Tót53, Tót72]. **edition** [Bra95]. **editor** [TL06]. **Effective** [SBH07]. **efficient** [LRCG16]. **eight** [Kla19]. **eight-** [Kla19]. **elementary** [GJT12]. **ellipses** [DTS05b, DCST07]. **ellipsoid** [DSCT04]. **ellipsoids** [DTS05b, DCST07]. **Embryonic** [ZSRB07]. **empilements** [Oes00]. **Encyclopedia** [Kao08]. **Engineering** [IEE07, SBH07]. **English** [Bra95]. **enthalten** [MPS02]. **Enumerating** [HC16]. **Equal** [BR03, Gen04, CF10, JT85, TJ12]. **equations** [BDH<sup>+</sup>05]. **Equidecomposable** [Hal07]. **Erratum** [Ano97, Mus98]. **Error** [CM00, LS71, Tho79, Tho83]. **error-correcting** [LS71, Tho79, Tho83]. **Estimates** [SST08]. **Euclidean** [Bli99, Har13, SDST06, TUS06]. **Evolution** [Cor02]. **Exact** [TJ10b]. **Excluded** [MT02a, BDH<sup>+</sup>05]. **Experiments** [FS11]. **Extremal** [Hal06b].

**face** [GJT12]. **face-centered-cubic** [GJT12]. **Families** [GJT12]. **Family** [TJ09a, Ano97, Mus97, Mus98, TJ10b]. **famous** [Cas01]. **FCC** [BW01, Sch00]. **feedback** [Sah06]. **Ferguson** [TL06, Lag11b, Oes00, VG01]. **field** [Zau16]. **fill** [Sen81]. **Filling** [PAHG12, Str28, Rén58]. **fine** [KGT15]. **fine-grid** [KGT15]. **Finite** [AMB11, BW01, BH98, BBC98, B<sup>+</sup>04, PKC16, TGW89, Lep97]. **finiten** [Lep97]. **first** [Bra95]. **Five** [Lee67a, Cas01]. **fluids** [ZBT<sup>+</sup>99]. **Flyspeck** [NBS06, Ada14, NBS07, ON09, TKUG13]. **Flyspecking** [Ada14]. **Foams** [Kla00]. **force** [Zau16]. **foreword** [TL06]. **Formal** [BB14, Hal08, Har08, TKUG13, Hal12, HAB<sup>+</sup>15]. **Formalizing** [Hal04]. **Formally** [AH14]. **formation** [Hsi01]. **formulas** [CKM<sup>+</sup>19]. **formulation** [HF06]. **Fortran** [BDH<sup>+</sup>05]. **four** [vMFC09]. **four-dimensional** [vMFC09]. **Free** [MT02a]. **French** [Ber93, Oes00]. **frictionless** [SAF10]. **front** [LTÜ00]. **frustration** [vMFC09]. **Function** [Kla19]. **Functions** [HSP00, AGMW13, Ano97, Kla19, Mus97, Mus98].

**game** [Gar01a]. **gehalten** [Hil00, Hil01]. **generalization** [Che13]. **Generalized** [Gav08]. **generate** [LRCG16]. **generation** [TS01]. **generative** [Hal01b]. **Generators** [Mar85]. **Geometrical** [vMFC09, HL03]. **Geometry** [ACM01, GW93, Zon06, dGMMD14, BR07, Gar01a, Gav08, Gru07, Hsi93a,

Hsi94, ZD96]. **geometry-based** [Gav08]. **Georgia** [Bil85].  
**Geräumigkeitsbedingungen** [Mát93]. **German** [Gar12, Gro62, Hen98, HZ00, Hil00, Hil01, Lep97, Mát93, Min04, MPS02, SvdW53, Tót53, Tót72].  
**gitterförmige** [Gro62, Min04]. **Glamorgan** [IEE07]. **Globally** [PKC16].  
**golden** [HST10]. **graphs** [Hal06d, NBS06, NBS07]. **Grassmann**  
 [BN00, BN02, BN05, Hen05]. **greatest** [Szp03a]. **grid** [KGT15]. **Groups**  
 [CS<sup>+</sup>88, CS<sup>+</sup>93, CS99, MPS02, Szi93, Tho79, Tho83]. **growth** [Gar12].  
**Guest** [TL06].

**Hale** [Mor05]. **Hales** [TL06, Hsi95, Jos12, Lag11b, Oes00, Ste99, VG01].  
**Hamming** [RZ12]. **Handbook** [GW93]. **Hard** [AM07, AGM08, MT02a, RT98, BCR83, Bal11, DTSC04, DTS05a, DTS05b, DCST07, HAEG11, PZ06, TS01, TUS06, TS10a, TS10b, TJ12, ZBT<sup>+</sup>99, vMFC09]. **hard-particle**  
 [TS01, TS10a, TS10b]. **Hard-sphere** [RT98, DTSC04, ZBT<sup>+</sup>99]. **HCP**  
 [Sch00]. **held** [CAL<sup>+</sup>13, Hil00, Hil01]. **helfen** [Gar12]. **Help** [Ano99, Gar12].  
**helped** [Szp03a]. **Heuristics** [SBH07]. **high** [SST08, SDST06, TUS06].  
**high-dimensional** [SDST06]. **Higher** [Max91, HM05, Lee64, SBG04].  
**highly** [Kla19]. **Hilbert** [Jos12]. **Historical** [Hal06a]. **history**  
 [Szp03a, Wea99]. **HOL** [Har13, KU13, Obu05]. **Holes** [MVG05].  
**honeycomb** [Hal01a]. **Honeycombs** [Hal00, Kla00]. **Hurwicz** [DFM17].  
**Hydrophobic** [BW01]. **hyper** [Ano97, Mus97, Mus98]. **Hyperbolic** [BR03].  
**hyperspheres** [AW10, SDST06]. **hyperuniform** [JT11].

**ICCS** [STDH02]. **ICMS** [FVJT10, HY14]. **identical** [CGV<sup>+</sup>03]. **II**  
 [DTS05b, Hal97a, Hal97c, ON09]. **III** [Hal06b, STDH02]. **IJCAR** [FS07]. **im**  
 [Hen98, HZ00, Tót53, Tót72]. **Implementing** [SBH07]. **impletione** [Str28].  
**independent** [ZRD<sup>+</sup>14]. **inequalities** [Bez97]. **infinite** [Lep97]. **infiniten**  
 [Lep97]. **infinity** [Gar01a]. **Integral** [FS11]. **intelligence** [Gav08, MS02].  
**Intelligencer** [Hsi95]. **Intelligent** [CAL<sup>+</sup>13]. **interdimensional**  
 [Ano97, Mus97, Mus98]. **Interface** [Bil85]. **International** [FVJT10, FS07, HY14, IEE07, STDH02, SBH07, BR07, HM05, SBG04, Hil00, Hil01].  
**internationalen** [Hil00, Hil01]. **interpolation** [CKM<sup>+</sup>19]. **Interval** [Ano99].  
**Introduction** [MT02b]. **Isabelle** [Obu05]. **Isabelle/HOL** [Obu05].  
**Isoperimetric** [Bez97]. **isostaticity** [JT11]. **Israel** [AL01]. **ISVD** [IEE07].  
**IV** [Hal06c].

**Jammed** [TS10a, DCST07, JT11, TS01, TS10b]. **jamming**  
 [DTSC04, SAF10]. **Japan** [FVJT10]. **Jerusalem** [AL01]. **Joint**  
 [FS07, MS02]. **July** [AL01, CAL<sup>+</sup>13]. **June** [ACM01].

**Kepler** [Hsi95, TS10b, TL06, Ano99, BB14, Bez13, Bra95, Gar12, Hal94, Hal98, Hal02, Hal03, Hal04, Hal05, HF06, Hal06a, Hal10, HHM<sup>+</sup>10, HF11, HAB<sup>+</sup>15, HL03, Hen98, HZ00, Hsi93b, Hsi93c, Hsi01, HS14, Jos12, Lag02, Lag11b, Lag11a, Mar11, Mus00, Szp03c, Szp03a, TS10a, Mor05].

**Kepler-Vermutung** [HZ00]. **Keplerschen** [Hen98]. **key** [Bra95]. **kissing** [Tal99, Zon96]. **Kobe** [FVJT10]. **Kongreß** [Hil00, Hil01]. **kongruenter** [Gro62, Min04]. **Korea** [HY14]. **Körper** [Min04]. **Kristalle** [Gar12]. **Kristallwachstum** [Gar12]. **Kugeln** [Tót53, Tót72, Hen98, HZ00, SvdW53]. **Kugelpackungen** [MPS02, Lep97]. **Kugelsysteme** [Mát93].

**Lagerung** [Gro62, Min04]. **Lagerungen** [Tót53, Tót72]. **large** [PZ06]. **lattice** [BH00, EDM09, Gro62, Hoy70, KGT15, KK90, Lee67a, Lee69, Min04]. **lattice-Boltzmann** [KGT15]. **Lattices** [CS<sup>+</sup>88, AS12, Che13, CKM<sup>+</sup>19, CS<sup>+</sup>93, CS99, Kla19]. **Laying** [Rog68]. **Least** [Hsi01]. **Lecture** [Hil00, Hil01]. **Leech** [CKM<sup>+</sup>19]. **Light** [Har13, KU13]. **Linear** [Hal10, AGMW13, DTSC04, Hal06d, Obu05, ON09]. **Liquid** [MT02b]. **list** [DTS05a, DTS05b]. **Local** [Mud93, Str28, SBH07, HST10, Lag02]. **Locations** [Wan00]. **loci** [Str28]. **logics** [HM05, SBG04]. **long** [JT11]. **long-range** [JT11]. **lot** [AW10]. **Low** [CS95]. **Lower** [MVG05, TS06, AF06].

**Magic** [Kla19]. **Manifold** [BN05, BN02]. **Manifolds** [BN00, Hen05]. **many** [NIS14]. **March** [Bil85]. **Marsaglia** [AW10]. **Massachusetts** [ACM01]. **matching** [AL01]. **Math** [Kla19, Mus98, Szp03a]. **Math.** [Hsi95]. **Mathematical** [Bun06, Cas01, Coh09, FVJT10, Hil00, Hil01, Hil02, Hil00, Bra95, FVJT10, HY14]. **Mathematicians** [Hil00, Hil01, Kla19]. **Mathematics** [Dav05, Szp03b, AH14, CAL<sup>+</sup>13, Gar01a, TKUG13, Gar12]. **Mathematik** [Gar12]. **Mathematiker** [Hil00, Hil01]. **Mathematiker-Kongreß** [Hil00, Hil01]. **Mathematische** [Hil00, Hil01]. **Matrix** [HSP00]. **Max** [Wan00]. **Maximal** [Oes00, HST10]. **maximale** [Oes00]. **Maximally** [JT11]. **Maximum** [BK10, BKM91, LZLX10]. **mean** [XGW13]. **meaning** [HL03]. **Medford** [ACM01]. **Medial** [Wan00]. **Meets** [Rad04, LTÜ00]. **metastable** [RT98]. **method** [AGMW13, LJ13]. **Min** [Wan00]. **Min-Max** [Wan00]. **minds** [Szp03a]. **Minimal** [CGV<sup>+</sup>03, CF10]. **Minimizing** [BS08]. **minimum** [BK10]. **Minkowski** [Tót99]. **MKM** [CAL<sup>+</sup>13]. **Mod** [TS10b]. **modeling** [ZSRB07]. **molecular** [DTS05a, DTS05b]. **most** [Cas01]. **mountaintops** [Cas01]. **MR1281754** [Hsi95]. **MRT** [KGT15]. **MRT/TRT** [KGT15]. **Multi** [IN07]. **Multi-sphere** [IN07]. **Multiple** [Bli99]. **Multiplicity** [TS01]. **multiscale** [Zau16]. **myriad** [Kla19]. **Mysteries** [LZ12].

**Natural** [Bra95]. **Neighbor** [DTS05a, DTS05b]. **Netherlands** [STDH02]. **Networks** [Cor02]. **Neural** [Cor02]. **News** [Edw16]. **Newton** [Bra95, HL03]. **Nive** [Kep11]. **no** [Hsi95]. **non** [AGMW13, Lee67a, Lee69]. **non-lattice** [Lee67a, Lee69]. **non-linear** [AGMW13]. **nonspherical** [DTS05a, DTS05b, DCST07, TJ12]. **Note** [TS10b]. **Notes** [Lee67b]. **Number** [Mar85, Gar01a, Tal99]. **Numbers** [Hau95, Hau91, Zon96]. **Numerical** [AH75, Gar12, KGT15]. **numerische** [Gar12].

**object** [BS08]. **objects** [LZLX10]. **octahedra** [GEK11]. **oldest** [Szp03a]. **One** [CM00, Kla19, Bra95, Rén58, Szp03a]. **one-dimensional** [Rén58]. **Online** [LMX19, ZCT<sup>+</sup>14]. **Optimal** [CM00, JST09, Kup07, PAHG12, Szi93, TS06, Wan00, ZBT<sup>+</sup>99, CK91, EDM09, MPS02, SST08]. **optimalen** [MPS02]. **optimality** [CKM<sup>+</sup>19]. **Optimally** [BW01]. **Optimization** [Cor01]. **Optimized** [PKC16]. **Orange** [Cor02]. **Orbits** [Rad04]. **Orbs** [Rad04]. **Order** [THBM07, HM05, SBG04]. **Organizing** [TJ12]. **other** [Gar01a]. **overlapping** [BDH<sup>+</sup>05]. **overview** [Hal06a]. **Oxford** [HM05].

**P** [Lag11b, Oes00]. **P.** [TL06]. **package** [BDH<sup>+</sup>05]. **Packed** [Ste99, HAEK<sup>+</sup>09]. **Packing** [AW00, BKM91, Bli99, B<sup>+</sup>04, BR03, Che08b, Che08a, CM00, CJS92, Coh17, CT06, Cor02, Cor01, Gar01b, Gil79, HSP00, Hau91, Hau95, He17, IN07, Kup07, LZ12, MT02a, Max91, Rad04, Rog64, SHWP09, Sch79, SDST06, TGW89, TK93, Wan99, Wan00, ZRD<sup>+</sup>14, Zin94, AW10, AH75, AS12, Ano97, BCR83, BB14, BB16, Ber93, BS08, BS70, CHH<sup>+</sup>01, CK91, CKM<sup>+</sup>16, DFM17, EDM09, GEK11, Hal92, Hen05, Hig61, HST10, Hoy70, Hsi93b, Hsi93c, Hsi01, JT85, LTÜ00, LZLX10, LJ13, LMX19, Mar11, Min04, Mus97, Mus98, Oes00, RZ12, Sah06, Sch06, Slo84, Sol67, Tan79, Via16, Wea99, XGW13, ZSRB07, ZBT<sup>+</sup>99, ZCT<sup>+</sup>14, Zon13]. **Packings** [AM07, AGM08, AMB11, BW01, BN00, BN05, BH98, BBC98, CE03, CS<sup>+</sup>88, CS95, FS11, Gen04, GORT02, Hal97b, Hal97c, Hal06c, HC16, Mud93, MVG05, PKC16, TS06, TJ09a, Tót99, BK10, BN02, BH00, Bez06, CEG10, Che10, CS<sup>+</sup>93, CS99, DTSC04, DSCT04, DCST07, Fer06, Hal93, Hal97a, Hal01b, Hal06b, Hal06d, Hal12, JST09, JT11, KEG09, KEG10, KGT15, Kun92, KK90, Lag02, Lee64, Lee67a, Lee67b, Lee69, LS71, Lep97, MPS02, PZ06, SST08, Slo81, Szi93, Tho79, Tho83, TS01, TJ09c, TJ09b, TJ10a, TJ10b, TS10a, TS10b, TJ12, VG01, Zau16, ZT99]. **packs** [LRCG16]. **Packungen** [Lep97]. **Pairs** [Gil79]. **Palásti** [AH75, BS70]. **papers** [BR07]. **paquets** [Ber93]. **paradoxes** [Gar01a]. **Parallel** [BKM91]. **parametric** [Sch00]. **Paris** [Hil00, Hil01]. **Park** [SBG04]. **parking** [AW10]. **part** [CAL<sup>+</sup>13, STDH02]. **Particle** [XGW13, TS01, TS10a, TS10b]. **particles** [DTS05a, DTS05b, DCST07, TJ12]. **Partitioning** [CJS92]. **pattern** [AL01]. **patterns** [Ano97, Mus97, Mus98]. **Penrose** [Rad04]. **Pentahedral** [Fer06]. **Perfect** [AW00, AS12]. **perimeter** [CGV<sup>+</sup>03, CF10]. **Periodic** [Zin94, KEG09, KEG10, TJ10b]. **pg** [TJ10a]. **Phase** [HAEG11]. **phases** [HAEK<sup>+</sup>09]. **phenomena** [ZD96]. **Philosophy** [Bra95]. **Phys** [TS10b]. **physical** [HL03]. **Physics** [MT02b, Coh09]. **picturebook** [Che10]. **plane** [BS70, KK90, Tót53, Tót72]. **Planning** [Wan99]. **Platonic** [BK10, JT11, SAF10, TJ09c, TJ09b, TJ10a]. **pokrytije** [Rog68]. **polydisperse** [ZBT<sup>+</sup>99]. **polyhedra** [GJT12, TJ09b]. **polyhedron** [AF06]. **polytopes** [BH00]. **Pontevedra** [BR07]. **Pontyprid** [IEE07]. **practice** [Har08]. **Principia** [Bra95]. **principle** [Hsi01]. **Principles** [Bra95, TJ12]. **prisms** [Fer06]. **Probabilistic** [CJS92]. **Probability** [SE92, Gar01a]. **Probleem** [Str28]. **Problem**

[Che08a, Cor02, Gil79, HS14, SvdW53, AS12, BB16, Bra95, CKM<sup>+</sup>16, Hal92, HL03, Hsi93b, Hsi93c, Mar11, Rén58, Str28, Via16, ZSRB07]. **Probleme** [Hil00, Hil01]. **Problems** [CJS92, Hil00, Hil01, Hil02, IN07, BS08, Cas01, Gar01a, Hil00, Kla19, Szp03a, Wea99]. **procedures** [TS01]. **Proceedings** [MS02, STDH02, Bil85, ACM01, AL01, CAL<sup>+</sup>13, FVJT10, FS07, HY14, SBH07, HM05, SBG04]. **Processing** [dGMMD14]. **programming** [DTSC04]. **Programs** [Hal10, Hal06d, Obu05, ON09]. **Projects** [CAL<sup>+</sup>13]. **Proof** [Hal04, Hal08, BB14, Hal03, Hal05, HHM<sup>+</sup>10, HAB<sup>+</sup>15, Har08, Hen98, Hsi93b, Hsi93c, Lag11b, Lag11a, Szp03b, Mor05]. **proofs** [Edw16, Hal12]. **prove** [Kla19]. **Proving** [Ano99, Obu05, HM05, SBG04]. **Publisher** [TS10b]. **Pursuit** [AW00]. **puzzles** [Gar01a].

**quadratic** [Hal07]. **Quasi** [AM07]. **Quasi-Regular** [AM07]. **quasicrystalline** [HAEK<sup>+</sup>09].

**Radical** [GORT02]. **Radiosurgical** [Wan99]. **Random** [AW10, AS12, HSP00, Mar85, Sol67, TUS06, Zin94, AH75, BCR83, BK10, BS70, Hig61, JT11, JT85, KGT15, LJ13, LRCG16, Rén58, Tan79]. **range** [JT11]. **ratio** [HST10]. **Raum** [Tót53, Tót72]. **Raumgruppen** [MPS02]. **real** [Obu05]. **Reasoning** [FS07, KU13]. **recreational** [Gar01a]. **reflection** [MPS02]. **regions** [Hal07]. **Regular** [AM07, Che08b, LZ12, CEG10, GEK11, KGT15]. **Regularization** [HS14]. **rejoinder** [Hsi95]. **Related** [CJS92, GJT12]. **Remarks** [Hal93, VG01]. **repeating** [KEG09, KEG10]. **retessellations** [GJT12]. **Rev** [TS10b]. **Review** [Mor05]. **revised** [BR07]. **revision** [HHM<sup>+</sup>10]. **revisited** [Bez06]. **Rigid** [HC16, ZRD<sup>+</sup>14]. **Role** [AM07, TJ09a]. **Rotated** [He17]. **Rule** [Kla19]. **Russian** [Rog68].

**sampling** [EDM09]. **Samuel** [TL06, Lag11b, Oes00]. **sausage** [Lep97]. **scale** [ZRD<sup>+</sup>14]. **SCG'01** [ACM01]. **Scheme** [IN07]. **schemes** [KGT15]. **School** [IEE07]. **Science** [IEE07, STDH02, Bil85]. **Search** [SBH07]. **Seattle** [FS07]. **sections** [Bra95]. **seems** [NIS14]. **selection** [TS01]. **Seoul** [HY14]. **September** [BR07, FVJT10, SBG04, SBH07]. **Sequences** [MVG05]. **sequential** [BS70, TUS06]. **service** [KU13]. **Sets** [MVG05, TK93]. **Seu** [Kep11]. **seven** [Lee69]. **seventeenth** [ACM01]. **Sexangula** [Kep11]. **Shape** [THBM07]. **Shapes** [AGM08, PAHG12, TJ12]. **short** [Wea99]. **simple** [Tho79, Tho83]. **Simplexes** [AGM08]. **simulation** [DTS05a, DTS05b, JT85]. **Simulationen** [Gar12]. **simulations** [CGV<sup>+</sup>03, Gar12]. **Six** [Lee69, Kep66]. **six-cornered** [Kep66]. **Sixteenth** [Bil85]. **Size** [PKC16]. **SLS** [SBH07]. **small** [KEG09, KEG10]. **snowflake** [Kep66]. **soft** [SAF10]. **Software** [FVJT10, HY14]. **Solarians** [Ste99]. **solids** [BK10, JT11, SAF10, TJ09c, TJ09b, TJ10a]. **Solitary** [Ste99]. **Solution** [Kla19, HL03]. **solve** [Kla19, Szp03a]. **solved** [BB16]. **solvent** [BDH<sup>+</sup>05]. **Some** [FS11, Hal03, Lee64, Szi93, Szp03a]. **South** [HY14]. **Space**



[BKM91, BR03, Har13, GJT12, Kla19, Lee64, MPS02, PZ06, RZ12, Rén58, Sen81, Szi93, Tót53, Tót72, ZCT<sup>+</sup>14]. **spaces** [SDST06]. **spaciousness** [Mát93]. **Spain** [BR07]. **Sphere** [AGM08, AMB11, BW01, BB16, BBC98, Bez06, Bli99, Che08a, CM00, CE03, Coh17, CS<sup>+</sup>88, CS<sup>+</sup>93, CS95, CS99, Cor02, Fer06, Hal97a, Hal97b, Hal97c, HSP00, Hal01b, Hal06b, Hal06c, Hal06d, Hau91, Hau95, He17, Hen05, HC16, Kun92, LS71, MT02a, Max91, Mud93, MVG05, Rad04, TS06, TGW89, Tót99, Wan00, ZT99, AS12, Ano97, BB14, BS08, CHH<sup>+</sup>01, CK91, CKM<sup>+</sup>16, DFM17, DTSC04, EDM09, Hal92, Hal93, Hal12, Hsi93b, Hsi93c, HS14, IN07, KGT15, Lag02, Lee64, Lee67a, Lee67b, Lee69, LTÜ00, LJ13, LMX19, LRCG16, Mát93, MPS02, Mus97, Mus98, Oes00, RZ12, RT98, Sah06, SST08, Slo81, Szi93, Tho79, Tho83, VG01, Via16, ZSRB07, Zau16, ZBT<sup>+</sup>99, Lep97]. **Sphere-Packing** [Cor02, Hen05, Oes00, Sah06]. **Spheres** [AM07, BN00, BN05, BH98, BKM91, BR03, Gen04, GORT02, PKC16, Ste99, Wan99, Zin94, BCR83, BN02, BDH<sup>+</sup>05, Gar01b, Hig61, Hsi93a, Hsi94, JT85, PZ06, SHWP09, Sch06, Slo84, TUS06, vMFC09, Oes00, Hen98, HZ00]. **Spherical** [HST10, Kup07, Slo81]. **Spiegelungsuntergruppen** [MPS02]. **spinodal** [BCR83]. **square** [ZCT<sup>+</sup>14]. **squeeze** [Coh09]. **Stability** [BBC98, LJ13]. **stable** [BK10]. **stack** [Szp03b]. **standard** [NIS14]. **State** [MT02b]. **statistical** [Hig61]. **statistics** [Bil85, RT98]. **status** [Hal94, Hsi95]. **Stephen** [Ste99]. **Stiefel** [Hen05]. **Stochastic** [SBH07]. **storage** [Gro62]. **Strange** [ZD96]. **Strena** [Kep11]. **Strings** [BKM91]. **strong** [Bez13]. **strongly** [Zau16]. **Structural** [AGM08]. **structures** [Ano97, Mus97, Mus98]. **Study** [Mar11, Ano97, Hig61, Mus97, Mus98, vMFC09]. **subgroups** [MPS02]. **Subsets** [Hau95, Hau91]. **superballs** [JST09]. **surface** [AF06, BDH<sup>+</sup>05]. **surfaces** [SHWP09]. **symmetric** [Kla19]. **Symmetry** [TJ09a, THBM07, Wey52, Wey82, Wey89]. **Symposium** [ACM01, Bil85, IEE07, AL01]. **system** [Bal11]. **Systems** [CAL<sup>+</sup>13, Mát93].

**T.** [Hsi95]. **Tables** [Slo81]. **Tame** [Hal06d, NBS06, NBS07]. **templates** [AGMW13]. **Tessellations** [GORT02, GJT12]. **test** [AW10, AH75, DTSC04]. **Tetraeder** [Gro62]. **Tetrahedra** [AM07, Che08b, CT06, LZ12, CEG10, GEK11, Gro62, HAEK<sup>+</sup>09, HAEG11, Hoy70, KEG09, KEG10, Sen81, Tal99, TJ10b, Zon96, Zon13]. **tetrahedral** [Che10]. **Tetrahedron** [TJ09a, Bal11]. **Them** [Kla19]. **theorem** [VG01, HM05, SBG04]. **Theoretical** [BCR83]. **Theorie** [Lep97]. **Theory** [HSP00, Har13, EDM09, Gar01a, Har08, Lep97, XGW13]. **Thermodynamics** [Bal11]. **things** [NIS14]. **Third** [FVJT10, FS07]. **thirteen** [SvdW53]. **Thomas** [TL06, Lag11b, Oes00, Ste99]. **Three** [HS14, Hal93]. **Three-sphere** [HS14]. **tight** [Coh09]. **Tiling** [CT06]. **Tilings** [Rad04, GJT12]. **time** [Cas01]. **topics** [Gar01a]. **topology** [Gar01a]. **tori** [Kun92]. **TPHOLS** [HM05, SBG04]. **transitive** [MPS02]. **transitiven** [MPS02]. **translation** [Bra95]. **translative** [Tal99, Zon13]. **Treatment** [Wan99]. **Triangulations** [dGMMD14]. **TRT** [KGT15]. **Twisted** [Gil79]. **two** [AH75, CGV<sup>+</sup>03, Kla19].

**two-dimensional** [AH75]. **type** [Hsi01]. **typological** [Ano97, Mus97, Mus98].

**UK** [CAL<sup>+</sup>13, HM05, IEE07]. **Ukladki** [Rog68]. **Underconstrained** [DCST07]. **understanding** [Gar12]. **Unequal** [Wan99, Hig61]. **Uniform** [BBC98]. **units** [KEG09, KEG10, Kun92]. **Universal** [CKM<sup>+</sup>19]. **University** [IEE07]. **Unusually** [DSCT04]. **Upper** [CE03, GEK11]. **USA** [FS07, SBG04, ACM01]. **used** [Kla19]. **Utah** [SBG04].

**V** [Fer06]. **Validating** [Mus00]. **Vapnik** [Hau91, Hau95]. **verification** [Hal02]. **verified** [AH14]. **Vermutung** [Hen98, HZ00]. **version** [Bez13]. **verstehen** [Gar12]. **versus** [Sch00]. **Very** [Bun06]. **VI** [Hal06d]. **via** [BDH<sup>+</sup>05, GJT12, Sch00]. **View** [Mar85]. **vol** [TJ10a]. **Volume** [MT02a, BDH<sup>+</sup>05]. **Voronoi** [IEE07, AF06, Gav08, GORT02]. **Vortrag** [Hil00, Hil01].

**WA** [FS07]. **Wales** [IEE07]. **Weighted** [dGMMD14]. **Which** [Sen81]. **Whither** [Dav05]. **Wiki** [TKUG13]. **Window** [Zon06]. **Workshop** [SBH07, BR07]. **world** [Szp03a]. **Wurstkatastrophen** [Lep97].

**XXX** [Hal01b].

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