# A Bibliography of Publications of Stanisław M. Ulam

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**Abstract**

This bibliography records publications of Stanisław Ulam (1909–1984).

## Title word cross-reference

**$17.50** [Bir77]. **$49.95** [Bár04]. **$5.00** [GM61]. $\alpha$ [OVPL15].

**-Fermi** [OVPL15].

**150** [GM61]. **1949** [Ano51]. **1961** [Ano62]. **1963** [UdvB+64]. **1970** [CFK71]. **1971** [Ula71b]. **1974** [Hua76]. **1977** [Kar77]. **1979** [Bud79]. **1984** [DKU85].

**2000** [Gle02]. **20th** [Cip00]. **25th** [Ano05].

**49.95** [Bár04].

**60-year-old** [Ano15].

**7342-438** [Ula71b]. **'79** [Bud79].

**Abbildungen** [MU31, SU34b, SU34a, SU35a, Ula34, Ula33a]. **Abelian** [MU30]. **Abelsche** [MU30]. **Above** [Mar87]. **abstract** [Ula30c, Ula39b, Ula78d]. **abstrakten** [Ula30c]. **accelerated** [UW64]. **Accelerates** [Gon96b]. **Adam** [Gle02]. **Adaptive** [Hol62]. **additive** [BU42, Ula30c]. **Advances** [Ano62, Ula78d]. **Adventures** [Met76, Ula76a, Ula87d, Ula91a, Bir77, Wil76]. **Aerospace** [UdvB$^+$64]. **ago** [PZHC09]. **Alamos** [DKU85, MOR76a, HPR14, BU90, Ula91b]. **Albert** [RR82]. **algebra** [BU78, CU44, EU45b, EU46, Gar01a, TWHM81]. **Algebraic** [Bud79, SU73]. **Algebras** [BU75, BU76, EU50d]. **Algorithm** [JML13]. **Algorithms** [Cip00]. **allgemeinen** [Ula30d]. **America** [FB69]. **American** [UdvB$^+$64, Gon96a, TWHM81]. **Analogies** [BU90]. **analogy** [Ula81c, Ula86]. **Analysis** [Goa87, JML13, RB12, Ula49, Ula64a, Jun01]. **Andrzej** [Ula47b]. **anecdotal** [Ula82c]. **Annual** [Ano05]. **any** [OU38a, Ula38b]. **applicability** [Ula69b]. **application** [EU50d, LU34]. **Applications** [Ula56b, Ula56a, Ula81a]. **Applied** [GM61, MOR76b, TWHM81, Ula67b]. **appreciation** [Gol99]. **Approach** [BPP18, Ula42]. **Approximate** [HU42, HU47, HU41, HU45]. **Approximately** [HU51, HU52]. **April** [Fla84, Gle02]. **area** [Ula43c]. **Arithmetic** [Bud79]. **arithmetical** [MU53, MUxx]. **Arlington** [TWHM81]. **arms** [McM05]. **Arthur** [Ula75]. **Astronautics** [Ula58f]. **astronomy** [FF91]. **astrophysics** [RR82]. **Atomic** [Ula60b, Dys02]. **Attempts** [Ula87c, US71, US86]. **Attractors** [Ste87, SZ10]. **Autobiography** [Gam70b, Gam70a]. **Automata** [Bur70, vNB66]. **automorphism** [SU33b, SU37]. **Automorphismen** [SU33b, SU37]. **aux** [UK33]. **Away** [HM90].

**Ban** [Ula63a]. **Banach** [Ula46, Ula78a]. **Barrier** [Rot86a, Rot85, Rot89]. **basic** [LU33b]. **before** [Ula58f, Ula60b, Ula63a, Ula71b]. **Beginning** [Met87]. **behavior** [Ula56c]. **Bemerkung** [SU35a]. **Bemerkungen** [SU34b]. **beneath** [Wil76]. **Berlin** [Bud79]. **Berlin/Wendisch** [Bud79]. **Berlin/Wendisch-Rietz** [Bud79]. **Bernstein** [Ula29b]. **Best** [Cip00]. **bete** [CU$^+$66]. **Betrag** [Ula30a]. **Bets** [HPR14]. **between** [EU50d, BU90]. **Beyond** [Ano05]. **bibliography** [KW64]. **binary** [SU59, Ula68a]. **Biographies** [Ula82a]. **Biology** [Ano87d, BSSU72, Ula78d, Wat06]. **Biomathematics** [Myc87, Ula72b]. **Birth** [PZHC09, McM05]. **body** [Ula62a]. **Bomb** [HM90, Sul84, Zor24, BHM91, For15, HM97, Kno90, WG17]. **Book** [Asp88, Bár04, Bir77, GM61, May69, Met76, Moo82, Str98, Gar01a, Mau81, Ula57d, Ula67d, Ula82c]. **Books** [Wil76, Ula58a]. **Borsuk** [Bár04]. **bounded** [Ula38a]. **Brain** [URR86c, Ula87c, Ula58d]. **branching** [Ula68a]. **Brilliance** [FE85]. **Brown** [Ula38f]. **Building** [For15]. **Burning**

[EU50c, EU50b].

**C** [Asp88]. **Cafe** [Rot87, Mau81, Mys90, Rot90, Ula69a, Ula69c]. **calcul** [LU34]. **calculate** [Fro99b]. **Calculating** [Ano51]. **calculation** [LU33b]. **Calculations** [Ula61b, Ula62d, Ula13]. **Calculus** [BU75, BU78]. **caractéristique** [AMU35]. **Cardinals** [Arr89, Myc87, Rid89, CES89]. **Carlo** [Asp88, Ben16, BHMU85, Dys12a, Eck87, HPR14, Hur85, JML13, KW64, MU49b, Ula56b, Met87, Ula48, Ula51, Ula56a, Ula61b, Ula62d, Ula13]. **case** [Ula71b]. **Categorial** [Bud79]. **category** [OU38a, Ula31]. **cathedral** [Dys12b]. **Cellular** [Bur70]. **Center** [Ano05]. **centre** [UW64]. **century** [Har06, Kur80, Moo82, Cip00, Har10, MHR80]. **certain** [GLMU56, SU55, SU59, Ula33b, Ula33a, Ula63c, Ula68a, Ula85]. **Chain** [JML13]. **challenge** [Ula75]. **chance** [Ula75]. **changed** [Har06]. **changing** [Ula65b]. **Chaos** [Arr89, Rid89, CES89]. **characteristic** [AMU35]. **charakteristische** [AMU31]. **Chess** [KSU+57, SU57a, SU57b]. **Chirikov** [FS10]. **circle** [SU35a]. **City** [UdvB+64, CFK71]. **classes** [BU42]. **classic** [Gar01a]. **closer** [Har10]. **cluster** [UW64]. **coefficient** [UK33]. **Collaboration** [Ber10]. **collaborators** [BU90]. **Collapse** [Ula66a, UW64]. **Collection** [GM61, MHR80, Ula60a]. **colossal** [Gar01a]. **combinations** [UvN47]. **combinatoire** [UK32]. **combinatoires** [LU34]. **Combinatorial** [Ula49, Ula64a, EU44a, HU60, LU34, SU55, UK32, Ula72a]. **Combinatorics** [Bár04]. **Comments** [BHMU85]. **Committee** [Ula60b, Ula63a]. **Communication** [Ula63a]. **compact** [SU35b]. **Complete** [Gol99, Ula30c, Ula38b]. **completely** [BU42]. **complexity** [BSU71, Ula81c, Ula86]. **Complicated** [Pat87]. **Composition** [BU77b]. **Computation** [Ano51, BU77a, Bud79, Kar77, LU34]. **Computational** [BU77b, Wat06]. **Computations** [BHMU85, Hur85, Ula68a, Ula56d, Ula62a]. **Computer** [BSU69, Mac92, Ben16]. **Computers** [Asp88, Ula64b, URR86c, SU63, SU64, Ula58c, Ula58d, Ula62c, URR86d]. **Computing** [MHR80, Ula80d, URR86e, SU55, SU57a, SU57b, UP53, Ula57c, Ula72a, Ula80c]. **concept** [Ula32]. **conceptual** [Ula78d]. **Concerning** [Ula29a, US71, US86]. **Conditions** [BLP09]. **Conference** [Ano62, Ano05, Bud79, DKU85, Kar77, CFK71, TWHM81]. **conjecture** [Myc77]. **Connected** [Ula62b, SU35b]. **connexe** [SU35b]. **Considerations** [EU50a]. **constant** [SU34b]. **construction** [Ula67c]. **constructive** [Ula81c, Ula86]. **contents** [Ano87c]. **continues** [PZHC09, SU33a, UK33]. **continuous** [HU42, HU47, SU33a, UK33, Ula34]. **contribution** [RW12, Ula30a]. **Contributions** [BSW85, Goa87]. **controversy** [BHM91]. **Convergence** [JML13, Bar86]. **Conversations** [Ula87a]. **convex** [HU51, HU52]. **Copernicus** [Ney74]. **Corporation** [Ula71b]. **correspondence** [EU50d]. **Cosmology** [Rei72]. **Court** [Ula71b]. **Cover** [Ano87c]. **covering** [KW64]. **Creating** [Zor24]. **creatrice** [Ula66c]. **cube** [Myc77]. **curves** [Ula43c].

**D** [EU50b]. **dans** [LU34]. **Debray** [Ula75]. **Debray-Ritzen** [Ula75]. **decompositions** [CEG+79, Ula33b]. **dedicated** [MOR76a, MOR76b, RR82, Rot86b]. **défi** [Ula75]. **defined** [GLMU56, SU67a]. **definitions** [Ula65b]. **Delivered** [Ano62]. **Demons** [Dys12c]. **dense** [UW64]. **d'ensembles** [UK33]. **densities** [Bar86]. **dependent** [BSU69]. **Designer** [Zor24]. **d'espaces** [MU32]. **determination** [EU48b]. **deterministic** [UvN47]. **Deterrence** [Mac92]. **Detonations** [TU51]. **Deuterium** [EU50c, EU50b]. **Development** [Ula60b]. **devices** [Ula66d]. **didn't** [MHM90]. **difference** [Ras10]. **differential** [UH54]. **diffusion** [RUvN47, Ula48, Ula61c]. **Digital** [Ano51, Dys12b]. **dilettante** [Ula63b]. **Dimensions** [SU60]. **discoveries** [Ula68c]. **discovery** [PZHC09]. **Discrete** [Has87]. **discrimination** [Ula82e]. **discussion** [UdvB+64]. **Display** [SUW64]. **dissertation** [Ula97]. **distance** [MU69]. **distributed** [MU49a]. **Distribution** [SUW64, SU67b, Ula38b]. **District** [Ula71b]. **Division** [UdvB+64]. **doctoral** [Ula97]. **Dr.** [Goo04]. **d'un** [AU35, SU35b]. **during** [Ula38f]. **dynamical** [Fro99b, RW12, SZ10, Ula56c, Ula61a, BC82]. **Dynamics** [BCP13, BPP18, Wei97, Str98].

**e-Abbildungen** [Ula33a]. **e-isomorphic** [Ula39a]. **e-transformations** [Ula33a]. **Early** [BHMU85, Har87, Hur85]. **Eclectic** [FE85]. **Editors** [Cip00]. **education** [Ula67b]. **Edward** [Goo04, Har10]. **Effects** [AMS19, BP11]. **Effort** [Gon96a]. **Eigenschaft** [AMU31]. **eigenvalue** [AMU31]. **Eindeutigkeit** [Ula30b]. **Einige** [Ula31]. **Einstein** [RR82]. **Electronic** [Ula62c, Ben16, SU57a, SU57b, SU63, SU64, Ula56d]. **elementary** [US71, US86]. **ellipsoid** [AMU35]. **ellipsoïde** [AMU35]. **Ellipsoides** [AMU31]. **ellipsoids** [AMU31]. **endomorphisms** [EU48b]. **Energy** [Ula60b, Ula58e, UdvB+64, Ula60b]. **Engineer** [Bec62, Bec13]. **ENIAC** [HPR14]. **Enrico** [Gol99, PZHC09]. **Entretien** [Ula75]. **entropy** [EU69, Fro99b]. **equation** [EU50e]. **Equations** [RB12, EU68, Jun01, Ras10, Ula48]. **Equipartition** [BP11]. **equivalence** [BU42, OU38a, Ula43b]. **Ergodic** [Pat87, vNU45, Ula38e, Ula56c]. **Ergodicity** [Myc87]. **ergodiques** [Ula38e]. **espaces** [LU34]. **Esquisse** [Ula87b]. **Essays** [Bur70, MHR80, MOR76b, MOR76a]. **Euclidean** [SU33a, SU34a]. **euclidiennes** [SU33a]. **euklidischen** [SU34a]. **Europe** [FB69]. **evolution** [Ula66b, Ula67a]. **Evolutionary** [BSSU74, US71, US86]. **Excerpts** [Ula87d]. **Existence** [OU38b, OU39]. **experiment** [DPR05, PZHC09]. **Experimental** [PZHC09]. **experimentally** [Ula72a]. **Experiments** [KSU+57, SU57a, SU57b, SU55]. **Exploration** [Ula58f]. **explosions** [EU55]. **Exponents** [BPP18]. **expressions** [UH54]. **external** [EU55]. **extracting** [Ula58e].

**F** [Hua76]. **F.U.N.** [Ras10]. **fallout** [BHM91, Han97]. **FCT** [Bud79, Kar77]. **FCT-Conference** [Kar77]. **Fe** [Ano05]. **Feigenbaum** [Ano93]. **Fermat** [EU71]. **Fermi** [Ano05, OVPL15, Str98, AMS19, Ano15, BLP09, BP11,

BCP13, BPP18, BI04, BI05, DPR05, Dau08, Gol99, PZHC09, Ula55, Wei97]. **Fifty** [BI05]. **Figures** [SU60, Ula62b]. **Finite** [BP11]. **Finite-Size** [BP11]. **First** [Zor24, Ben16, CFK71, MOR76a, OU38a]. **five** [Har06]. **fixed** [Ula30e, Ula47a]. **Fixpunktes** [Ula30e]. **Florida** [BC82]. **flows** [Ula82f]. **Fluids** [Has87]. **Foreign** [Ula63a]. **Foreword** [Ula70, Ula80b]. **Formalized** [Ula47b]. **formulate** [Ula66b, Ula67a]. **formulations** [Ula67c]. **foundations** [Ula85]. **fourth** [TWHM81]. **frameworks** [Ula85]. **Fray** [Mar87]. **French** [AU35, AMU35, LU34, SU33a, SU35b, US31, UK32, UK33, US33, Ula38e, Ula75]. **Frontiers** [Ula60b]. **Fuchs** [Ber10, MHM90]. **function** [MU53, MUxx, Ula47a]. **Functional** [Ras10, RB12, Jun01]. **functions** [HU42, HU47, HU51, HU52, Ula29a, Ula30c, Ula38f, Ula43b, Ula59a, Ula59b]. **Fundamentals** [Bud79, Kar77]. **Funkcje** [Ula59a, Ula59b]. **fusion** [Rei72]. **Future** [Ula58c, Ula81a, UdvB$^+$64].

**galaxy** [UW64]. **Game** [Ano62, Mac92, Gar01a]. **games** [MU87b, Ula56b, Ula56a, Ula74b]. **Gamow** [Rei72, Ula72c, URR86a]. **Garwin** [Zor24]. **Gave** [HM90]. **GDR** [Bud79]. **genealogical** [MU69]. **general** [BU42, Ula30d, Ula38b, Ula43c, Ula67c, Ula97]. **Generalizations** [Ula71a]. **generalized** [Ula29b, Ula80a]. **generalizing** [EU66]. **générateurs** [AU35, SU35b]. **Generators** [BU76, AU35, SU35b]. **Genesis** [Wei97, Str98]. **Genetics** [Goa87]. **Geneva** [Yor87]. **Genève** [CU$^+$66]. **Genius** [Mac92]. **Geometrical** [Ula42, SU67a]. **Geometry** [Bár04, Gar01a]. **George** [Rei72]. **Gerard** [Ula30b]. **Gerardenmengen** [Ula30b]. **German** [AMU31, LU33a, LU33b, MU30, MU31, SU33b, SU34b, SU34a, SU35a, SU37, Ula30a, Ula30b, Ula30d, Ula30e, Ula30c, Ula31, UB31, Ula32, Ula33b, Ula33a, Ula34]. **Gesetze** [LU33a]. **gewisse** [Ula33b, Ula33a]. **Gian** [Asp88]. **Gian-Carlo** [Asp88]. **Google** [SZ10]. **graph** [CFK71]. **Graphs** [Gra87, CEG$^+$79]. **gravitational** [Ula58e]. **grossen** [LU33a]. **Group** [vNU47, AU35, EU66, SU35a, SU35b, US33]. **groupe** [AU35, SU35b, US33]. **groups** [EU44b, EU45a, MU30, SU33b, SU37, Ula42]. **Growth** [SU60, Ula62b, HU60, SU67a]. **Grundlagen** [LU33b]. **Gruppe** [SU35a]. **Gruppen** [MU30].

**H** [BHM91, For15, HM90, HM97, Kno90]. **H-Bomb** [HM90, BHM91, HM97, Kno90]. **half** [Kur80, Moo82]. **Hamilton** [EU50e]. **Harvard** [Ano51]. **hazard** [Ula75]. **Hearings** [Ula63a, Ula58f, Ula60b]. **held** [Bud79, CFK71, DKU85, TWHM81]. **heritage** [Ney74, TWHM81]. **Heterocatalytic** [TU51]. **Heuristic** [PU59, UP53]. **high** [UP53]. **Hilbert** [Myc77]. **Hiroshima** [Yor87]. **History** [MHR80, BSU69, DPR05, For15, RR82, RW12, Ula82c]. **history-dependent** [BSU69]. **Homage** [Ula55]. **Homeomorphisms** [vNU47, OU41]. **homme** [CU$^+$66]. **Honeywell** [Ula71b]. **honor** [Hua76]. **Hotel** [Ano05]. **House** [Ula58f]. **hull** [BU68]. **hulls** [MU67]. **Hydrodynamic** [TU51]. **Hydrodynamics** [Har87, PU59]. **Hydrogen** [Sul84, Zor24, WG17]. **Hyers**

[Jun01]. **Hypothesis** [Pat87].

**Ideas** [Ula73, Ula72b, Ula78d]. **Ignition** [EU50c, EU50b]. **II** [BC82, Ula31, EU49b, EU50b, Ula43d, UE48b, Ula59b]. **II-er** [Ula31]. **III** [EU49c, Ula44, UE48c]. **Impact** [Ano05]. **implications** [Ula68c]. **Incorporated** [Ula71b]. **independantes** [LU34]. **inequalities** [Ras10]. **Infamous** [Wel12]. **Infinite** [Ula57a, Ula64a, MU30, MU49a]. **Infinities** [Ula74a]. **infinity** [Gar01a]. **influential** [Har10]. **Informal** [Gam70b, Gam70a]. **Initial** [BLP09]. **inni** [Ula78a]. **inspire** [PZHC09]. **Instabilities** [BHJ$^+$87]. **Institute** [Hua76]. **Integer** [BU79]. **Integer-Valued** [BU79]. **integers** [GLMU56]. **Integrable** [BCP13, BPP18]. **intellectual** [FB69]. **interacting** [EU69]. **Interaction** [Ula80d, URR86e]. **International** [Ano05, Kar77, BC82]. **Internationales** [CU$^+$66]. **Interscience** [GM61]. **interval** [Fro99a]. **Interview** [Bar81, Ula75, Ano82, Ano93, Fei85]. **Interviews** [AA85, AA08]. **Introduction** [Ula82d, BSSU72]. **invariance** [Myc77]. **invariant** [OU39]. **Invarianten** [Ula33a]. **invariants** [Fro99b, Ula33a, Ula38d]. **investigated** [Ula56d]. **involving** [Ula48]. **isometric** [MU31]. **isometries** [HU41, HU42, HU45, HU47]. **isometriques** [MU32]. **isometrische** [MU31]. **isomorphic** [CEG$^+$79, Ula39a]. **isomorphism** [RW12]. **isomorphisms** [Ula71a]. **isoperimetric** [Ula43c]. **Iteration** [Ste87, Bar86]. **iterations** [Ula82f]. **Itself** [Ula87c, SU35a]. **ivory** [Wil76].

**J** [Bár04]. **J.** [McM05, PC06]. **Jacobi** [EU50e]. **John** [Ber10, Eck87, Mac92, PZHC09, Réd05, Ula58b, Ula58d, UKTS68, UKTS69, Ula82a, Ula82b, URR86b, URR86c]. **Joint** [Ula60b, Ula60b]. **Judging** [Har10]. **June** [CFK71].

**Kac** [Kem70, May69, Ano82, Ano93, Fei85, Rot86b]. **Kategorie** [Ula31]. **Kawiarni** [Ula69c]. **Kazimierz** [Moo82, Ula81b, Ula83]. **kinematics** [CU44]. **Klaus** [Ber10]. **know** [MHM90]. **Koestler** [Ula75]. **Kornik** [Kar77]. **Kreislinie** [SU35a]. **Ksiegi** [Ula78b]. **Kuratowski** [Moo82, Ula81b, Ula83].

**Laboratory** [Ano51, DKU85]. **lady** [Dau08]. **Large** [Ano51, EU50c, EU50b, LU33a]. **Large-Scale** [Ano51]. **last** [EU71]. **late** [Ula58d]. **Laws** [BLP09, LU33a]. **Learning** [Myc87]. **Lebesgue** [US31]. **Lectures** [Bár04, SU73, Ula38f]. **Legacy** [Ano87d, Ano87e, Ano87f, Ano05, Arr89, Rid89, CES89]. **length** [Ula43c]. **Lenses** [TU51]. **Letter** [Han92, Han97, HM97, Kno90, Zie77]. **Letters** [BHM91, MHM90, Réd05]. **lié** [UK33]. **Life** [Arr89, Rid89, CES89, PC06]. **Limit** [BP11]. **Line** [Gam70b, Gam70a, MU49a, SU35a]. **Linear** [JML13, SU63, SU64, Ula63c]. **Logic** [Kem70, May69, KU68, KU79, KU92]. **Logical** [Hol62]. **logika** [KU71]. **logique** [KU73]. **look** [Har10]. **looks** [Ula80c]. **Lorentz** [EU66]. **Lost** [Mys90, Rot87, Rot90, Mys90, Rot90].

**Lyapunov** [BPP18].

**M** [Ano87a, Bar85, Bar08, BSW85, Bir77, GM61, Kem70, Met76, MOR76a, MOR76b, Rot84, BU90, Ula94, Wil76]. **M.** [US31]. **machine** [Ula66c]. **Machinery** [Ano51]. **machines** [SU55, SU57a, SU57b, UP53, Ula56d, Ula57c, Ula72a]. **Making** [Yor87]. **Manhattan** [Ben16]. **manifolds** [Ula34]. **Mannigfaltigkeiten** [Ula34]. **many** [Ula62a]. **many-body** [Ula62a]. **map** [Bar86, FS10]. **Maps** [Ste87, Fro99a, Ula34]. **March** [Gle02]. **Marcin** [Fla84, Myc90]. **Marian** [Ula57b]. **Mark** [Asp88, May69, Ano82, Ano93, Fei85, Kem70, Rot86b]. **Markov** [JML13]. **Martians** [Har06]. **Mass** [EU50c, EU50b, MU49a]. **Massachusetts** [Hua76]. **Massbegriff** [Ula32]. **Masses** [Ula30b]. **Massfunktionen** [Ula30c]. **Massproblem** [Ula30a]. **Masstheorie** [Ula30d]. **masters** [Ano82, Ano93]. **Matching** [Dub76]. **Matematika** [KU71]. **matematyka** [Ula78c]. **Math** [Wil76, Ula67b]. **Mathematical** [AA85, AA08, GM61, MU87b, RB12, SUW64, SU67b, Ula60a, Ula61b, Ula62b, EU48b, Jun01, TWHM81, UP53, Ula56d, Ula62d, Ula78d, Ula80c, Ula81c, Ula85, Ula86, BU90, Ula13]. **mathematically** [Ula66b, Ula67a]. **Mathematician** [Ula87d, Ula76a, Ula91a, Met76, Wil76, Bir77]. **Mathematicians** [Ano15, Ula76b]. **Mathematics** [Ano87e, Bec62, Bec13, CR09, GM61, KU68, KU79, KU92, Kem70, MOR76a, Pat87, PZHC09, Ula80d, URR86a, URR86e, FF91, Gar01a, Kur80, Mau81, MOR76b, Moo82, RR82, Ula64c, Ula69b, Ula72c, Ula81a, URR86d, TWHM81, Asp88, Ula47b, May69]. **Mathématiques** [KU73]. **Matousek** [Bár04]. **matrices** [EU50d]. **matrix** [SZ10]. **matters** [Rei72]. **May** [Ano05, DKU85, Fla84]. **Meaning** [Rot86a, Rot85, Rot89]. **means** [EU55]. **Measurable** [Myc87]. **Measure** [Gra87, OU41, BU42, LU34, Myc77, OU38a, OU39, Ula30a, Ula30b, Ula30d, Ula30c, US31, Ula32, Ula38b, Ula39b, Ula41a, Ula43a, Ula97]. **Measure-preserving** [OU41]. **measures** [Ula41a]. **mechanics** [Rot86b]. **mechanism** [Ula82e]. **Meeting** [Ano62, UdvB$^+$64]. **Meetings** [BHMU85, Hur85]. **Memo** [MU87a]. **Memoir** [Haw87]. **Memorable** [MU87a]. **memorial** [Rei72, Rot84]. **Memoriam** [Rot86a]. **memorium** [Rot89]. **Memory** [AMS19, Fla85, RR82]. **Mengen** [Ula31, Ula33b]. **Mengenlehre** [Ula30d]. **mesure** [LU34, US31]. **Method** [Eck87, Met87, Ben16, EU55, FS10, Fro99a, Fro99b, MU49b, Ula51, Ula61c]. **Methods** [Bár04, Bud79, KW64, Ula56b, RUvN47, Ula48, Ula56a]. **Metric** [BU79, BSSU74, Ula38b, Ula43c]. **metrical** [OU41]. **metrically** [OU38b]. **Metrics** [BSSU72]. **Mexico** [Ano05, DKU85]. **migration** [FB69]. **Milestones** [Gon96a, Gon96b]. **Mind** [FE85, Ney74]. **Minimal** [CEG$^+$79]. **Minkowski** [Ula43c]. **Minneapolis** [Ula71b]. **Minnesota** [Ula71b]. **Mirrors** [TU51]. **Mitchell** [Ano93]. **mixing** [Ula82f]. **Mixture** [EU50c, EU50b]. **Model** [AMS19, Ula67c]. **modeling** [US71, US86]. **models** [Ula57a]. **Modern** [Bec62, Bec13, Mac92, McM05, Ula64c]. **Molecular**

[BSSU74, Goa87]. **Monte**
[JML13, Ben16, BHMU85, Dys12a, Eck87, HPR14, Hur85, KW64, MU49b, Ula56b, Met87, Ula48, Ula51, Ula56a, Ula61b, Ula62d, Ula13]. **most** [Har10]. **Mostowski** [Ula47b]. **motions** [MU49a]. **Much** [Mac92]. **multiplication** [Ula61c]. **Multiplicative**
[EU48a, EU49a, EU49b, EU49c, UE48a, UE48b, UE48c, UH44]. **My** [Gam70b, Gam70a]. **Mysteries** [LZ12]. **mysterious}** [Dau08].

**n** [SU35a]. **Name** [Cip00]. **Narodziny** [Ula78b]. **National** [DKU85]. **Natural** [MOR76a, SU33b, SU37, US33, Ula78d, Ula81a]. **naturels** [US33]. **natürlichen** [SU33b, SU37]. **navigating** [Ula58e]. **networks** [SZ10]. **neue** [UB31]. **Neumann**
[Bar86, Ber10, Eck87, JML13, Mac92, Réd05, RW12, Ula58b, Ula58d, UKTS68, UKTS69, Ula80d, Ula82a, Ula82b, URR86b, URR86c, URR86e]. **neutron** [RUvN47]. **never** [Kno90]. **nombre** [AU35, SU35b]. **nombres** [US33]. **Non** [SU63, SU64, Ula63c]. **Non-linear** [SU63, SU64, Ula63c]. **Nonlinear** [Ano05, Cam87, DKU85, Mau87, SU73, FPU55, PUF65]. **normed** [MU31]. **normés** [MU32]. **normierten** [MU31]. **Note** [BU68, Hur85]. **Notes** [SUW64, SU67b]. **notion** [BSU71, MU69, Ula81c, Ula86]. **notions** [Ras10]. **November** [TWHM81, UdvB$^+$64]. **Nuclear**
[EU61, HPR14, Mac92, EU55, UdvB$^+$64, Ula63a]. **Number**
[GM61, Ste87, AU35, Gar01a, Rot86b, SU33b, SU35b, SU37]. **numbers** [BMR74, EU50d, LU33a, US33]. **Numerical**
[Har87, PU59, Ula68b, DPR05, PZHC09, US71, US86]. **NY** [UdvB$^+$64].

**objects** [SU67a]. **Observation** [SU67b]. **October** [Ano62, TWHM81]. **odyssey** [Yor87]. **old** [Ano15, Ula74b]. **one** [Har10]. **open** [Ula62e]. **operation** [UB31, Ula38d, Ula41b, Ula43d, Ula44, UB31]. **operations** [Ula80a]. **Oppenheimer** [McM05, PC06]. **Optimal** [Dub76]. **ordered** [EU44b, EU45a]. **organization** [Ula57c]. **origins** [Dys12b]. **Orion** [Dys02, Ula65a]. **other** [Fro99b, Gar01a, Rei72]. **our** [Hua76]. **Outline** [Hol62]. **Oxford** [Moo82].

**P** [Str98]. **P34** [BU47]. **P35** [BU47]. **Packing** [Gar01b, LZ12]. **pair** [Ula80a]. **pairing** [MU69]. **pairwise** [CEG$^+$79]. **panel** [UdvB$^+$64]. **Papers** [Ano62, TWHM81]. **Paradigms** [Cam87]. **paradoxes** [Gar01a]. **parallel** [BU77a]. **Part** [MSU59, UE48a, UE48b, UE48c]. **Paso** [TWHM81]. **Pasta** [AMS19, Ano05, Ano15, BLP09, BP11, BCP13, BPP18, BI04, BI05, DPR05, OVPL15, Str98, Wei97, Dau08, PZHC09]. **Patterns**
[BU79, SU60, Ula62b, HU60, SU67a, Ula65b]. **peace** [Yor87]. **pedagogical** [DPR05]. **People** [AA85, Asp88, AA08, URR86d]. **Pergamon** [Moo82]. **period** [KW64]. **permutation** [SU33b, SU37, US33]. **permutations** [US33]. **Permutationsgruppe** [SU33b, SU37]. **Personal** [URR86a, For15]. **perspectives** [DPR05, KU73]. **perspektivy** [KU71]. **Philosophical**

[Ula68c]. **photographs** [Moo82]. **Physical** [Ula64a, Ula85]. **Physicist** [Gol99, Ula80c, Yor87]. **physicists** [Har06]. **Physics** [Ano87f, Hua76, Pat87, Ula61b, Ula76b, FF91, RR82, UP53, Ula57a, Ula57b, Ula62d, Ula13]. **physics-astrophysics** [RR82]. **Pierre** [Ula75]. **Pioneered** [Mac92]. **Play** [Haw87]. **pleasing** [Ney74]. **points** [MU49a, Ula30e, Ula47a]. **Pointwise** [Bar86]. **Poland** [Kar77]. **Polish** [Moo82, Ano82, Ano93, Kur80, Ula83, Zie77]. **populations** [EU69]. **positive** [EU50d]. **possibilities** [EU66, Ula57c]. **Possibility** [UW64, Ula58e]. **possible** [Ula78d, Ula85]. **Potpourri** [Ste87]. **Poznan** [Kar77]. **Poznan-Kornik** [Kar77]. **pp** [Bár04, Bir77, Moo82]. **Practicalities** [Cam87]. **Practice** [BU77b]. **Preface** [Moo82]. **Preliminary** [BU75, Ula42, EU44a, HU41, OU38b, Ula38a, Ula39a, Ula41b, Ula43c, Ula43d, Ula44]. **preserving** [OU41]. **Primes** [SUW64, SU67b]. **Princeton** [Ano62]. **probabilistic** [EU71]. **probabiliteés** [LU34]. **probabilities** [LU34, Ula57b]. **Probability** [Mau87, Rot86b, Ula49, Gar01a, LU33b]. **Problem** [Ano05, Ano15, BLP09, BP11, BCP13, BPP18, Dub76, Pat87, Wei97, BI04, BI05, BU42, EU48b, RW12, Ula30a, Ula43c, Ula62e, EU50c, EU50b, Ula33a, Str98]. **Probleme** [Ula38c, Ula33a]. **Problemes** [BU47]. **Problems** [PU59, Ula49, Ula60a, Ula61b, Ula62b, Ula64c, CU44, EU44a, FPU55, Gar01a, HU60, MU87b, PUF65, SU55, Ula48, UP53, Ula56d, Ula61c, Ula62d, Ula63b, Ula66b, Ula67a, US71, Ula72a, US86, Ula13, GM61]. **proceedings** [BC82, Bud79, CFK71, Kar77, MOR76a, MOR76b, Ano51, DKU85]. **process** [MU69, UW64]. **processes** [BSU69, UH44, UvN47, Ula52, Ula68a, US71, US86]. **product** [Ula32, UK32, Ula38d, Ula44, Ula71a]. **production** [Ula80a]. **products** [BU31, Ula41b, Ula43d]. **produit** [UK32]. **Produktraumen** [Ula32]. **Profiles** [AA85, AA08]. **progress** [BI04, BI05]. **project** [Ula65a, Ben16, Dys02]. **projectiles** [EU55]. **Projective** [BU75, BU78, EU45b, EU46]. **Propagation** [DKU85]. **propelled** [EU61]. **Properties** [SUW64, UK32, Ula61a, Ula63c]. **property** [AMU35, MU53, MUxx, US31]. **proposition** [Ula31]. **Propositions** [Ula47b]. **propriété** [AMU35, US31]. **propriétés** [UK32]. **propulsion** [EU55]. **Prospect** [May69]. **prospects** [KU68, Ula72b, Kem70]. **Proud** [Zie77]. **Przygody** [Ula78c]. **Publications** [Ano87a]. **Publishers** [Moo82]. **Pure** [GM61]. **Pursuing** [Str98, Wei97]. **puzzles** [Gar01a]. **PWN** [Moo82].

**Quadratic** [MSU59]. **quantities** [Ula31, Ula33b]. **quasi** [Ula47a]. **quasi-fixed** [Ula47a]. **Quelques** [UK32]. **Questions** [Zor24].

**R1** [BU47]. **Race** [Gon96b, McM05]. **Radiation** [TU51]. **Radisson** [Ano05]. **Rand** [Ula71b]. **Random** [EU50e, Ula52, vNU45, BSU69, Fro99a, Ula80a]. **randomly** [MU49a]. **randomness** [MU53, MUxx]. **Rassias** [Jun01]. **rate** [Ula66b, Ula67a]. **rates** [US71, US86]. **Raumen** [SU34b, Ula30c]. **reaction** [SU59]. **reactions** [EU50a]. **Real** [Ula59a, Ula59b, EU50d, Goo04, Ula38f].

**Really** [HM90]. **recognition** [Ula82e]. **recreational** [Gar01a]. **Recursive** [Ula65b]. **recursively** [SU67a]. **Reflections** [Ano82, Ano93, Arr89, Gra87, Rid89, Ula87c, CES89, Kur80, Moo82]. **regard** [RW12]. **Regular** [LZ12]. **related** [UK33]. **relation** [BU42]. **Relational** [BU77b, BU77a]. **Relations** [BU75, Ula63a, BU76, BU78, Ula63a]. **Relativity** [EU66]. **Remark** [Ula29b, SU35a, SU34b]. **Remarks** [BU77b, EU71]. **Remembrances** [Moo82, Kur80]. **reminiscence** [Ula83]. **Reminiscences** [Ula69a, Ula69c, URR86a, Ula94]. **Rencontres** [CU$^+$66]. **Reply** [Rot90]. **Report** [BU75, Wel12, EU44a, HU41, OU38b, Ula38a, Ula39a, Ula41b, Ula42, Ula43c, Ula43d, Ula44]. **reported** [PZHC09]. **reports** [BU90]. **representations** [Ula42]. **Representatives** [Ula58f]. **Reproducing** [vNB66]. **Research** [Ula60b, Ula62c, Ula60b]. **Retrospect** [Kem70, May69, KU68]. **rétrospective** [KU73]. **Retrospektiva** [KU71]. **Review** [Asp88, Bár04, Bir77, GM61, May69, Met76, Moo82, Str98, Ula47b, Ula59a, Ula59b]. **Reviews** [Kem70]. **Reynolds** [Asp88]. **Richard** [Zor24]. **Rietz** [Bud79]. **Ritzen** [Ula75]. **Robert** [McM05]. **robot** [CU$^+$66]. **rocket** [EU61]. **role** [Ula78d]. **Roman** [Ula59a, Ula59b]. **Rosa** [Ula87e]. **Rota** [Asp88, Ula87a]. **Route** [OVPL15]. **ruin** [McM05]. **rules** [Ula74b]. **Rzeczywiste** [Ula59b, Ula59a].

**S** [Bir77, Met76, MOR76a, Wil76]. **S.** [Dub76, GM61, MOR76b, Rot84, BU90, Ula94]. **Sandwiches** [Hil18]. **Santa** [Ano05]. **Satze** [Ula31]. **Sausage** [Zor24]. **Scale** [Ano51]. **Scales** [BP11]. **Scaling** [BLP09]. **schemata** [BU77a, Ula81c, Ula86]. **Science** [Cam87, URR86d, RR82, Har06, Asp88]. **sciences** [Ula78d, Ula81a, MOR76a]. **Scientific** [BHMU85, Hur85, Mac92, Moo82, Ula62c, Ula68c]. **scientists** [Har10]. **Scottish** [Mau81, Ula57d, Ula67d, Ula69a, Ula69c, Ula82c]. **Scribners** [Bir77]. **Second** [Ano51, Bec62, Bec13, Ula31]. **Secret** [HM90, Kno90, WG17]. **secrets** [HM97]. **Segments** [Dub76]. **selbst** [SU35a]. **Selected** [RR82, BMR74, Réd05]. **Self** [vNB66]. **Self-Reproducing** [vNB66]. **semi** [AU35]. **semi-simple** [AU35]. **semisimple** [AU35]. **Senate** [Ula63a, Ula63a]. **separable** [Ula38b]. **September** [Ano51, Bud79, Kar77, Ula71b]. **Sequence** [BSSU74, Goa87, Wei06]. **sequences** [GLMU56, SU33b, SU37, US33]. **Series** [Bec62, Bec13]. **service** [Rot84]. **Set** [Car03, Ula38d, BU68, EU44a, OU38a, Ula30d, Ula97]. **Set-theoretical** [Ula38d]. **Sets** [Ula64a, BU42, BMR74, EU68, MU67, Ula29a, UK33, Ula41a, Ula41b, Ula43d, Ula44]. **several** [UE48a, UE48b, UE48c]. **shock** [Han92]. **sich** [SU35a]. **sieves** [GLMU56]. **Sikorski** [Ula59a, Ula59b]. **Similarity** [Gra87]. **simple** [AU35]. **Simulation** [Wei97, Str98, Ula67c]. **Simulations** [HPR14]. **Size** [BP11]. **Slicing** [Hil18]. **Smoluchowski** [Ula57b]. **Society** [UdvB$^+$64]. **Solar** [Hil18]. **Solution** [Dub76]. **Solve** [Ano15]. **Solvers** [JML13]. **solving** [Ula61c]. **Some** [BU77b, EU44a, EU71, PU59, SUW64, Ula56d, Ula62b, Ula63c, Ula63b, Ula64a, US71, Ula72a, Ula72b, US86, BSU69, CU44, EU66, HU60, Ula57c,

Ula61a, Ula68c, Ula81c, Ula85, Ula86, UK32]. **son** [LU34]. **Soviet** [WG17]. **Space** [Ula58f, HU42, HU47, Ula38a, Ula38b, Ula58e, UdvB$^+$64, Ula73]. **space-time** [Ula73]. **spaces** [BU31, LU34, MU31, SU34b, Ula30c, Ula32, Ula47a]. **spaceship** [Dys02]. **special** [RW12, EU66]. **specifically** [Ula78d]. **Speculations** [Ula82e, Ula85]. **speed** [UP53]. **Sperry** [Ula71b]. **Sphären** [SU34a]. **Sphere** [vNU47, SU34a]. **spheres** [Gar01b, SU33a, SU33a]. **Spirit** [Haw87]. **spoken** [Rot84]. **sponsored** [UdvB$^+$64]. **Springer** [Bár04]. **Stability** [Ula62a, Jun01, Ras10, UH54]. **Stage** [Car03]. **Stan** [Ano82, Ano93, Bar81, CR09, Eck87, Fei85, Haw87, Mar87, Mys90, Rot86a, Rot87, Rot90, Ula75, Ula87b, Ula87d, Wat06]. **standard** [FS10]. **Stanislaw** [Asp88, Kem70, May69, Moo82, Ano87b, Ano87a, Ano87c, Arr89, Bar85, Bar08, BMR74, BSW85, CES89, FE85, Fla84, Fla85, Hoa02, Myc90, PZHC09, Rid89, Rot89, Sul84]. **star** [Ula68b]. **stars** [UW64]. **Statement** [Ula58f, Ula60b]. **States** [Hil18, Ula63a, Ula71b]. **static** [Ula65b]. **Statistical** [RUvN47, Ula48, Rot86b, Ula61c, Ula61a]. **Stefan** [Ula46]. **stellar** [Ula66a]. **stetige** [Ula34]. **stetigen** [SU34b]. **stochastic** [UvN47]. **story** [Dys02]. **Strange** [Ste87]. **Strangelove** [Goo04]. **structures** [BU77a, EU48b]. **studied** [Ula72a]. **Studies** [Ano05, FPU55, PUF65, BSU69, RR82, SU63, SU64, UP53, Ula68b]. **Study** [SU55]. **Sub** [Ula87e]. **Subcommittee** [Ula60b]. **subgraphs** [CEG$^+$79]. **subsets** [Ula41a]. **such** [EU61]. **suite** [US33]. **Surface** [vNU47, Ula43c]. **Surveys** [MOR76b]. **symmetric** [BU31]. **Symposium** [Ano51, MOR76a, Hua76, BC82]. **system** [OVPL15]. **Systems** [DKU85, Hil18, Hol62, Mau87, Ula47b, BC82, CU44, EU48a, EU49a, EU49b, EU49c, MU49a, RW12, SU59, UE48a, UE48b, UE48c, Ula56c, Ula58e, Ula61a, Ula66a, Ula68b]. **Szkockiej** [Ula69c, Ula78b].

**T** [EU50b]. **tactical** [Ula56b, Ula56a]. **talking** [Yor87]. **Technology** [Hua76]. **Teller** [Goo04, Har10, Wel12]. **Test** [Ula63a]. **Testimony** [Ula71b]. **Tetrahedra** [LZ12]. **Texas** [TWHM81]. **their** [EU48b]. **Theme** [Gra87]. **Theorem** [Bár04, EU71, Ula29b]. **Theorems** [vNU45]. **Theoretical** [BSW85, Ula38d]. **Theorie** [Ula30e, LU34]. **Theories** [Ula64a, Ney74, Ula85]. **Theorist** [Sul84]. **Theory** [Ano62, BU77b, BSW85, Hol62, Mac92, Ste87, Ula38f, Ula41b, Ula43d, UH44, Ula44, vNB66, BU77a, Bud79, CFK71, EU44a, Gar01a, Kar77, LU34, Rot86b, Ula30d, Ula30e, Ula39b, Ula42, Ula57b, Ula97, EU66]. **thermalization** [OVPL15]. **Thermodynamic** [BP11]. **Thermonuclear** [Gon96a, Gon96b, Ula66d, EU50a]. **third** [TWHM81]. **Thomas** [Str98]. **Time** [BP11, Ula73]. **Time-Scales** [BP11]. **Top** [Cip00]. **topics** [Gar01a]. **Topological** [Bár04, BU31, SU34b, SU34a, SU35a, SU35b, UB31, UK32, Ula42]. **topologique** [SU35b]. **topologiques** [UK32]. **topologische** [SU34a, UB31]. **Topologischen** [SU34b, SU35a]. **topology** [Gar01a]. **Touch** [Ano87g].

**tower** [Wil76]. **Tracts** [GM61]. **transformation** [OU39, SU63, SU64]. **Transformations** [SU73, Ula82f, MU31, MU32, MSU59, OU38b, SU33a, SU34b, SU34a, SU35a, UK33, Ula33a, Ula38a, Ula38e, Ula39a, Ula47a, Ula52, Ula63c]. **transitive** [OU38b]. **transitivity** [OU41]. **transmutations** [Ula80a]. **Transport** [DKU85]. **treasury** [FF91]. **Treaty** [Ula63a]. **Tree** [Asp88, URR86d]. **Trees** [BSSU74]. **trends** [CFK71]. **Trialogue** [Ula87e]. **Tritium** [EU50c]. **true** [Dys02]. **Turbulence** [BHJ+87]. **Turing** [Dys12b]. **twentieth** [Har06, Har10, MHR80]. **Two** [SU60, CEG+79, Ula38f]. **type** [Ula48].

**U.S.** [Ula58f, Ula63a]. **Ulam** [Ano87b, Ano05, Asp88, Bár04, Bir77, Fla84, GM61, Gle02, Jun01, MOR76a, Moo82, OVPL15, Str98, AMS19, Ano82, Ano87a, Ano87c, Ano87d, Ano87e, Ano87f, Ano87g, Ano93, Ano15, Arr89, Bar86, Bar81, Bar85, Bar08, BLP09, BP11, BCP13, BPP18, BI04, BI05, BMR74, BSW85, Car03, CR09, CES89, DPR05, Dau08, Dub76, Dys12c, Eck87, Fei85, FE85, Fla85, FS10, Fro99a, Fro99b, Goa87, Gra87, Han92, Haw87, Hoa02, JML13, Kem70, Mar87, May69, Met76, MOR76b, Myc77, Myc87, Myc90, Mys90, PZHC09, Ras10, Rid89, Rot84, Rot86a, Rot87, Rot89, Rot90, SZ10, Sul84, Ula75, Ula87b, Ula87d, BU90, Ula94, Wat06, Wei97, Wei06, Wel12, Wil76]. **Ulamian** [Ste87]. **Undecidable** [Ula47b]. **Underlying** [BCP13, BPP18]. **Understand** [Ula87c]. **unendliche** [MU30]. **Uniqueness** [Ula30b]. **United** [Ula63a, Ula71b]. **universe** [Dys12b]. **universes** [BMR74]. **University** [Ano51, Ano62, BC82, TWHM81, Ula38f]. **unknowns** [EU68]. **Unlikely** [Ber10]. **USA** [Ano05]. **use** [Ula57c]. **uses** [Ula58c]. **Using** [Bár04, Fro99b, JML13].

**Valued** [BU79]. **Variables** [LU34, Ula38f, UE48a, UE48b, UE48c]. **vector** [MU31]. **vectoriels** [MU32]. **vectors** [CU44]. **vehicle** [EU61]. **vehicles** [Ula58e]. **Vektorraumen** [MU31]. **versus** [Ula71b]. **very** [UW64]. **Victor** [Hua76]. **viii** [Moo82]. **Visual** [SUW64, BU68, MU67]. **Vita** [Ula87d]. **vollstandig** [Ula30c]. **Volume** [Ula59b, RR82, Rei72, Rot86b]. **vs** [BLP09].

**Wahrscheinlichkeitsrechnung** [LU33b]. **walk** [EU50e, Ula80a]. **Warmth** [FE85]. **Warsaw** [Moo82]. **Was** [Mys90, Rot90, KAS96, Kno90]. **waves** [Han92]. **way** [KAS96]. **weapons** [Yor87]. **Weissert** [Str98]. **Weisskopf** [Hua76]. **Wendisch-Rietz** [Bud79]. **Who** [HM90, Mac92, Har06]. **winter** [UdvB+64]. **Words** [Rot84]. **Work** [Har87, PU59]. **works** [BMR74]. **World** [Gam70b, Gam70a, FF91, Hua76]. **Wspomnienia** [Ula69c, Ula83].

**year** [Ano15]. **Years** [Ano05, BI04, BI05, PZHC09]. **York** [Bir77, CFK71, GM61, UdvB+64].

**Zahlen** [LU33a]. **Zahlenfolge** [SU33b, SU37]. **Zerlegungen** [Ula33b]. **zero**

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