A Complete Bibliography of the Publications of
Jonathan Michael Borwein

Nelson H. F. Beebe
University of Utah
Department of Mathematics, 110 LCB
155 S 1400 E RM 233
Salt Lake City, UT 84112-0090
USA

Tel: +1 801 581 5254
FAX: +1 801 581 4148

E-mail: beebe@math.utah.edu, beebe@acm.org,
       beebe@computer.org (Internet)
WWW URL: https://www.math.utah.edu/~beebe/

20 May 2024
Version 1.92

Abstract
This bibliography records publications of Jonathan Michael Borwein.

Title word cross-reference

#11418 [BB09l]. #13553 [Bor81a].

$(a, b) \leftrightarrow ((a + 3b)/4, (\sqrt[4]{a} + b)/2) [BBxxb]$. $(a, b) \leftrightarrow (\frac{a+3b}{4}, \frac{\sqrt[4]{a+b}}{2}) [BB9b]$. (G) [BBL99]. $1/\pi [BB87b, BB88d, BB93d]$. 24 $[BB16o, CKM^16]$. $\$25 [BB93g]. \$27.95 [BB91d]. \$30.00 [Coh15]. \$44.95 [BC96]. \$45 [Zei05].\$45.00 [Sha05]. \$49 [Zeid05]. \$49.00 [Ban10, Sha05]. \$49.95 [Ber88]. 5 [Ade13, ZS12]. \$59.50 [Bor06o]. 6 [ZZ14]. \$65 [Odl11]. \$69.95 [Bai91]. 8 [BB16o, Via16]. \$99.00 [Bor99b]. $[na+b] [Bor91n]. [na+\gamma] [BB93e]. * [BFG03]. $b [BBG0b]. \textbf{R} [DL02]. C^1 [BKW02, BFL02]. W [BL16]. D^4 [Sol95]. DAD [BLN94b]. E_6 [Sol95]. E_8 [Sol95]. \ell_0 [BL11]. \ell_1 [XWQ14]. c [LS00, YS00]. G [BBL97c]. k [BBB96b, BBB96c, BBB97d]. L [BB15c, BB07c]. L^1 [BZ94b, BZ97, Hon85]. L^\infty [Hon85]. L^p [Bor97g, Bor98g].
$L_1$ [BL93b, BV97]. $L_1(\Omega, \mu)$ [BF93d]. $L_{1/2}$ [WSL16]. $L_p$ [BTBT88, BBL10]. $n$ [BB84d]. $P$ [Alt20, BLS11, BLS13, BLS16, BLS18]. $\pi$

[AW97, ABBS12, Bai88, BBC12, BBC12a, Bai16b, BMM16, BB83, BB84b, BB84c, Bor85b, BB86b, BB86c, BB89a, BG96a, BB96d, BG97b, Borxx, BB11-31, Bor14p, Bor16n, Gan14, GG07, Gui08, Nim15, TK97, Wei15], $\pi^2$ [BBMW11, BMM13]. $q$ [LL01, PP11, War03]. $R_n$ [BBW96]. $p$ [Ade14, BFG03].

$\theta(z, q)$ [HGB93]. $\theta(z)$ [Bor82c]. $W$ [BBMW11, Bor16n]. Weak* [BF95b]. $x_n := M(x_{n-1}, x_{n-2}, \ldots, x_{n-k})$ [Bor94a].

$xy + yz + zx$ [BC98a, BC00].

$(2n+2)$ [BBB05, BBB06a].

$(4n+3)$ [BB95f].

$(4n+3)$ [AG99, BB97c, Bor97v, Bor97w, BB05f].

-analogue [PP11]. -ary [BBG04b]. -designs [AX20]. -elliptic [LL01]. -fold [BBB96b, BBB96c, BBB97d]. -function [BKW02]. -linear [DL02].

-regularized [XQW14]. -Series [BB7c, BB15c]. -smooth [BFL02].

-Spheres [BLS17, BLS18, BLS16]. -subgradients [Bor82c]. -trinomial [War03]. -Variational [YS00, LS00].

0 [BC96, Bor06o]. 0-12-558630-2 [BC96]. 0-19-850763-1 [Bor06o]. 0-387-29570-4 [Bou06]. 0-387-87820-3 [Bor11-38]. 0-691-14247-5 [BO11b]. 0-89871 [Bor05g].

1 [BLN94a, Bor06o, Bor11-38, Bou06, Sha05]. 1-56881-136-5 [Sha05]. 1-56881-211-6 [Sha05]. 10 [Bai17e]. 100-Digit [Bor05g]. 100th [BB12u, BB12n]. 12 [BB12-49]. 125th [AAB12]. 14th [IEE08]. 17th [IEE08]. 1880-2 [Bor99b]. 1983 [SBW84]. 1987 [AAB12]. 19th [Hd12].

2 [BC96]. 2000 [Ted03]. 2000j [BZ02a]. 2001 [BB12a, BB12n]. 2002 [KG04]. 2012 [BBL13]. 2013 [BS14a]. 2014 [BBC14a]. 2016 [BBS17]. 2017 [Bai17e, BB12b, IE08]. 210th [BB12, BB12b, IE08]. 211th [BB12b, BB12g, BB12-48, BBC14a, BB03, Bor03-27, Bor03-28, Bor03-29, Bor04-27, Bor04w, Bor04x, Bor04y, Bor04z, Bor09r, Bor10a, HF05, Hoa05, R+05, Zei05, BB04b]. 25 [Bai17a]. 2nd [Bou06].

3/14/15 [BB15t]. 38 [BZ02a, BZ02b].

4 [Bor81a]. 4N [Bor97q]. 4th [HY14].

5 [Sha05]. 51 [Bor81a]. 561-X [Bor05g]. 5th [BF06b].

60th [BBB13]. 6430-6435 [BSZ83].

7th [KG04].

8 [Zal86]. 80th [Ano15]. 85h [Zal86].

90d [BBB97a]. 978 [Bor11-38, Bou06]. 978-0-387-29570-1 [Bou06].
[Bor12o, Bor14p, Bor14s, Bor16o]. arcsin [BC07]. arctan [Nim15]. arguments [BV93b, BV94d]. arising [BB13g, BBC13, Cvi10]. Arithmetic [BB13q, BB84a, LBM96, BB97b, LBM97, BB00b, BB04a, Bor10-29, Bor11-33, Bor12b, BB11-29, BB15p, Bor87d, Bor88a, Bor88b, Bor88c, Bor88d, Bor88e, Bor88f, Bor89e, BBG93b, Bor10e, BNSW11, BB16t, Zah06]. Art [BB12u, BB12n, BBLZ13c]. Articles [BC15a, BC16]. Arty [BBG04b]. Asen [Bor11-38]. aspects [BBBL97, BBBL98a, BBBL98b, Bor12b]. Asplund [Bor93a, BW07, Bor07b]. Assessment [MTCB98]. assets [BCM02, BCM03]. assisted [BB05a, BB08c, Bor93c, Bor93d, Bor06h, Bor07g, Bor08d, Bor08e, Bor08g, Bor09a, Bor09e, Bor09f, Bor09g, Bor09h, Bor12-33]. Associated [BCLM16, BCLM17, Liu01]. Association [BBLZ14p, Coh15, KG04]. Astonishing [BGMS21]. Astronomy [Fer91]. Asymptotes [BB93f]. Asymptotic [BBD97, BBD00, BBD04, BBD97, BBD04, BBD89, BBD16]. Asymptotics [BL92a, BSxx, Bor07i, Bor07j, BBC07c, BBC08b]. Atlantic [Bor04j, Bor04k]. attractors [BR16]. Aubin [Bor92b]. August [BF06b, BBS17, HY14, SBW84, BS16a]. Australia [BBB+20, Bea13, BB13a, BB13-27, BB13-39, Bai17a, Bor10-30, Bor13d, Bor13a]. Australian [BB12k, BB13m]. Automated [BBK14]. Automatic [Bor87a]. Autour [Dev9x]. average [Zah06]. Averaged [BLT17, DLR20, BLT15, BLT16]. avoid [BBL+16b]. Avoiding [Bor04-32]. Avriel [Bor90b]. away [BB11n, BB11d, BG16a, BG18b]. B [Ber88, Coh15]. Back [BBLZ13a, Bor11o, Bor11a, PD18]. Back-Testing [BBLZ13a]. Background [BB15t, BJL+08]. Backing [Bor06f]. Backtest [BBS+16a, BBGZ17, BBLZ14c, BBLZ14k, BBLZ14s, BB8+15a, BBL+16b, BB16a, BBL16c]. backtested [BBLZ14a]. Bad [BB12t, BB12a]. baffle [Bor15a]. Baghdad [SV14]. Bailey [Gan17, Odl11, Sha05, Zoi05, Bai16a, BCJW13, BCJW13, BE16, Fin95, PP11]. Baire [BS84a, BMW99a, BMW99b, BMW99c, BMW01]. Balkanica [Bor81a]. ball [BK1, BK81a, BS10a]. Banach [Bor81a, BB95a, BBC00a, BBC01, BBWY11a, BBWY11b, BBWY12a, BBWY12b, Bor78a, Bor82e, BS83, BS84b, BS86, Bor85m, BS87, BBFS9b, Bor91d, Bor92g, Bor92h, Bor92a, BB13a, Bor93f, Bor93g, BV94a, BV94b, Bor94b, Bor94d, Bor94j, Bor94k, BB94b, BN94, Bor95a, Bor96b, BV96b, BB96, BB97, BB97, BBT97, BJ98, BJ98, BJSM00, BV00b, BV01, BG01, BJ13M02, Bor02d, Bor02e, BG03a, BBL04, BM07c, Bor07x, BM07d, BE08, BG09, BG09v, BV10a, Bor13c, Bor13f, Bor13g, Bor13h, Bor13i, BG15b, BG16b]. bang [BB14m]. barometer [BBLZ16b]. Barrow [BB09g, BB93g, Bor09b]. Bartle [BD03]. Barycentres [TB80]. Barzilai [IP17, IP18, RS02, AX20, AP16, AK22, BL17a, BL17b, CZX21, CPRZ20, DL02, DLL05, DF05, DSHS06, DABY15, DK16, FN15, Fle05, GDT15, GS02, HNP10, HY90, HD07, HLZ14, HL15a, HLZ15a, HLZ15b, HL15b, HLY16, HLD12, JAL24, JY12, JD13, KJ16, La 09, LLS11, LZ14, Li15, LW18, LW19, LY21, LL13, Mar91, MR96, MP18, MPB16, NWY09, NWY10, NFB17a, NFB17b, PT14, PoS13, PD18, QXY14, Ray93, Ray97, SI16, SD15, WM07, WSaSY15,
HC09, HD07, HLZ14, HL15a, HLZ15a, HL15b, HLY16, HDL21, IP17, IP18, Jal24, JY12, JD13, JN03, KMY00, Koh01, KJR16, KPS16, KPS17, La 09.

Borwein
[LS00, LLS11, LZ14, Li15, LW18, LW19, LY21, Liu01, LL13, MW16, Mar91, Mer15, Mi09, Mi08, MW12, MR96, MP18, MPB16, MR11, NYW09, NYW10, NFB17a, NFB17b, Osb05, PT14, Pos13, PD18, QR07, QYX14, RP09, Ray93, Ray97, Rei02, RS02, Sz14, SI16, SD15, TK97, Tha02, Vir14, WM07, WSdSY15, War01, War03, WSL16, XH08, XSW12, XWQ14, XC11, Yan94, YS00, YW12, Zah06, Zsl86, ZH06, ZSQ10, ZL22, Zha10, Zho12, ZSZ16, Zhu91].

Borwein-based [JY12].

Borwein-Like [WSL16, DABY15, GDT15, Gui17, JD13].

Borwein-type [Gui16].

Borweins [AB15, AAW06, Bai88, Bai16b, Kom00, Kom02, Kom04, LL01, Liu00, XY12].

Boson [BB13o].

Bothered [BB12c].

Bound [BMS13, BSM13, XH08].

Boundaries [Goo20, BS86, BS87].

Bound [BB06a, BB08d, BLL94, Bor06j, Bor06k, CPR20, PT20, BBL97c, BB99, BC09].

Box [BBC07a, BCC10, BBC10, DF05, ZH06].

box-constrained [DF05].

Boys [BBLZ14m].

Bradley [AG99, PP11, Zha10].

Brailey [Bor15e].

Brain [BB12v, BB12i].

Brainstorming [Bor98c].

Braive [BBB+96a].

Breakthrough [BB13-42].

Breakthroughs [BB14e].

Bregman [BB95b, BB97a, BB00a, BBC03, Bor02b, BRS11, BML18].

Bregman-Type [BML18].

Brézis [BBWY11a, BBWY12a].

BRICs [BB11v].

Brief [Bor77d, BC15a, BC16].

Bringing [Bor03g].

British [BBJC97].

Broadhurst [Cvi10, Zha10].

Brooks [Bai91].

Brooks/Cole [Bai91].

Brother [Bor08s, Bor12a].

Brothers [Bre20a].

Brouwer [BBWY11a, BBWY12a].

Brown [BB13d].

Brun [PT20].

Bucks [BB14e].

Budget [Bor14a].

build [Bor13d, Bor13a].

bump [BFKL00, BFKL01, BFL02].

Bumps [Bor04l, Bor04m, Bor06r].

Burge [War01].

Burgers [BB10a, BB14f, BB14g, SW21, BB12-45, BBLZ13h, Bor15n, Bor16e].

Canada [KG04, BB13-27, BB14-30, BB14-29, Bor04-30, Bor04-28, Bor06-28, R+05].

Canadian [Ber88, KG04, Bor03h, CW16].

Cancellation [BB10a].

Can't [BB14-28].

Cap [BBLZ13d].

Carathéodory [BBFG00, BBFG01].

CAT [BS10].

Catalan [BBMW11, BBMW13, Bor10x, BBGW11, Bor11-30].

Categorical
color [BB13e, BB13f].  Colorful [BB13f, BB13e].  Coloring [AC18].  Columbia [BBJC97].  combat [BB12-29].  Combinatorial [ABT13b, ABT14b, BBBL97, BBBL98a, BBBL98b].  come [BB12g, BB13-47].  comes [Bor15b].  Coming [Bor07w, Bor07-32, Bor08n, Bor08o].  Commemorative [Bai17a].  Common [BLT17].  Communicating [BMPR02, BRR08, Ban10].  communications [Bor92c].  Community [Bor83p, BS05].  compact [BRLZ99, BLZ99, BRLZ00, BLZ01].  Compactly [BLM99, BLM00].  compactness [BF93c, BF95b].  Companion [HDG15, Bor09b].  Comparing [DLR20].  comparison [BGL93].  Compendium [BBB96b, BBB96c, BBB97d].  Competition [Bor77d].  Complementarity [AI18, BD86, AR13, Bor84a, Bor85c, Bor87e, BD89, HLZ14, HLY16, KJR16, LLS11, LZ14, Li15].  complementary [BC09].  complete [BZ92].  completed [BB14j].  completely [SZ14].  Completeness [Bor83b, QR07].  Completion [ABT13a, ABT14a, CZX21, Bor13j, Bor14f, Bor14g, Bor15g, Bor16p].  Complex [BC04a, BMN98, BMN00, Bor04-29, Bor10-27].  Complex-Parameter [BC04a].  Complexity [BB84e, BB87d, BB88e, BBxaxa, BB17, BB98b, Ber88, Wim88].  complicated [Bor14z, Bor16-27].  component [LY21].  composite [HL15a].  Composition [KMZ1-03].  compositions [BM97d].  Compound [BB93f].  Comprehensive [BS14a, BS14b].  Compressed [BB13g, BL17a, BL17b, Bor09c, Bor10h, Bor11p, QYX14].  compression [LY21].  compressive [XWQ14].  Computation [Bai88, BB08a, BBMW11, BB12y, BBC14b, BBC+14a, BB15b, BB15a, BB16a, BB16b, BBM17, BB18, BB84a, BB97b, BB99g, BB99h, BB99i, BB99j, BB99k, BB99l, BB99v, BB00b, BB00c, BB00d, BB00e, BB00f, BB00g, BB00h, BB00i, BB00j, BB01i, BB01j, BB01k, BB03b, BB03c, BB03a, BB04a, BB04b, BB04c, BB04d, BB05-41, BH06, BB07b, BB07u, BB08h, BB09b, BB09i, BB09t, BB10l, BB10m, BB11t, BB11x, BB11y, BB11z, BB11f, BB11-27, BB11-28, BB12e, BB12f, BBM13, BBM13, BB14i, BB14j, BB14k, BB14l, BB14m, BB14n, BB15h, BB16n, LL18, MTCB99, BBP97, BB10d, BB11j, BB12, BBMW13, BB15c, BB15o, Bai16b, BBM16, BB16l, BB90q, BB90r, BB90s, BB90t, BB90u, BB90v, BB90w, BB90x, BB93h, BB93i].  computation [Bor94n, BMN98, BBxaxc, BMN00, Bor10q, BB16t, IP17, IP18].  Computational [BB09a, BB+13, BB+13, BBR16, BBR17, Ber88, BB87d, BLNN94, BBC98, BS99d, BBC00b, BB00s, BB02j, BB02k, BB03i, BBG03, BB05h, BB05-38, BB05-39, CC20a, GN16, Gan17, Hol20, SBB13, Wim88, Zei05, BB09e, BB17, Bor93p, BB98b, BS99b, BS00, BBG04a, BB10l, BLN95].  Compute [BBB97c, BB00b, BB04b, BB16, BB97a, BB89].  computed [MTCB98].  Computer [BB05a, BB08c, BBKL16, BBKL17, Bor92i, BB92b, BB93c, BB93d, BB06h, BB07g, BB08d, BB08e, BB08f, BB09d, BB11-29, BB14i, BB14j, BB14k, BB14l, BB14m, BB14n, BB15h, BB16v, BB12-44, BB12-36, BB13-35, BB13-36, BB91e, BB91f, BB91g, BB91j, BB91k, BB91l, BB91m, BB91n, BB91o, BB91p, BB91q, BB91r, BB91s, BB91t, BB91u, BB91v, BB91w, BB91x, BB91y, BB91z].
Bor91m, Bor92e, Bor92f, Bor08c, BD09. **Computer-assisted**
[BB05a, BB08c, Bor06h, Bor07g, Bor08d, Bor08e, Bor08f]. **computers**
[BB12s, BB12m, BB16e, BB16s]. **Computing**
[BBLZ13a, BBS16b, Bor98h, Bor01e, BB01c, Bor02s, Bor02t, Bor03a, Bor04f, Bor04g, Bor05-28, Cal16, IEE08, JWDS+14, Bor92k, Bor92l, Bor92m, Bor98q, Bor03x, Bor03y, Bor06-28, BS11c, BS12a, Bor05g]. **Conant**
[Bai16a, BE16]. **concave** [Bor86b]. **Concavity** [SZ81, Bor90b].
**Conditions**
[BTZ95, BBY12, LY18, Bor82b, BZ88, BL91d, BTZ98]. **Cone**
[BW81a, BW05a, BW81d, BW81d]. **Cone-convex** [BW81a, BW81d].
**Cone-monotone** [BW05a, BBL04, BG09]. **Cone**
[Bor77c, Bor78a, Bor86d, Bor87c, Bor87b, EB08, BO76, Bor78c, Bor80a, BM09, BM10, Zhu91]. **Conference**
[Ano15, Bai17a, Bea13, HY14, IL09, AAB+88, ABD03, BF06b, KG04, RZ15].
**Confidence** [BBLZ14g], **confirm** [BB14m], **conflicted** [BBLZ15d].
**conformation** [BT14b, BT14a, BT17]. **confusing** [BB10b].
**confusion** [BR14c, BR14a]. **Conditions**
[BTZ95, BBY12, LY18, Bor82b, BZ88, BL91d, BTZ98]. **Cone**
[BW81a, BW05a, BW81d, BW81d]. **Cone-convex** [BW81a, BW81d].
**Cone-monotone** [BW05a, BBL04, BG09]. **Cones**
[Bor77c, Bor78a, Bor86d, Bor87c, Bor87b, EB08, BO76, Bor78c, Bor80a, BM09, BM10, Zhu91].
**Conference**
[Ano15, Bai17a, Bea13, HY14, IL09, AAB+88, ABD03, BF06b, KG04, RZ15].
**Confidence** [BBLZ14g], **confirm** [BB14m], **conflicted** [BBLZ15d].
**conformation** [BT14b, BT14a, BT17]. **confusing** [BB10b].
**confusion** [BR14c, BR14a]. **Conditions**
[BTZ95, BBY12, LY18, Bor82b, BZ88, BL91d, BTZ98]. **Cone**
[BW81a, BW05a, BW81d, BW81d]. **Cone-convex** [BW81a, BW81d].
**Cone-monotone** [BW05a, BBL04, BG09]. **Cone**
[Bor77c, Bor78a, Bor86d, Bor87c, Bor87b, EB08, BO76, Bor78c, Bor80a, BM09, BM10, Zhu91]. **Conference**
[Ano15, Bai17a, Bea13, HY14, IL09, AAB+88, ABD03, BF06b, KG04, RZ15].
**Confidence** [BBLZ14g], **confirm** [BB14m], **conflicted** [BBLZ15d].
**conformation** [BT14b, BT14a, BT17]. **confusing** [BB10b].
**confusion** [BR14c, BR14a]. **Conditions**
[BTZ95, BBY12, LY18, Bor82b, BZ88, BL91d, BTZ98]. **Cone**
[BW81a, BW05a, BW81d, BW81d]. **Cone-convex** [BW81a, BW81d].
**Cone-monotone** [BW05a, BBL04, BG09]. **Cone**
[Bor77c, Bor78a, Bor86d, Bor87c, Bor87b, EB08, BO76, Bor78c, Bor80a, BM09, BM10, Zhu91]. **Conference**
[Ano15, Bai17a, Bea13, HY14, IL09, AAB+88, ABD03, BF06b, KG04, RZ15].
**Confidence** [BBLZ14g], **confirm** [BB14m], **conflicted** [BBLZ15d].
**conformation** [BT14b, BT14a, BT17]. **confusing** [BB10b].
**confusion** [BR14c, BR14a]. **Conditions**
[BTZ95, BBY12, LY18, Bor82b, BZ88, BL91d, BTZ98]. **Cone**
[BW81a, BW05a, BW81d, BW81d]. **Cone-convex** [BW81a, BW81d].
**Cone-monotone** [BW05a, BBL04, BG09]. **Cone**
[Bor77c, Bor78a, Bor86d, Bor87c, Bor87b, EB08, BO76, Bor78c, Bor80a, BM09, BM10, Zhu91].
controls [BB15w]. conundrums [Tre13], converge [Bor98d]. Convergence [BB93b, BBT85, BL91a, BL93a, BL93c, BV95a, BBP95, BBP98, BV9x, BY06, BST13, BLT15, BLT16, BLT17, Gil18, Lor08, Mar91, AB12, AB13, AK22, BB93a, BB90a, Bor88j, BF89c, BL91c, BV93a, BV93b, BV94c, BV94d, BH94a, BH94b, BV95b, BV95c, BV95d, BV96c, Bor09-29, BLY13, BLY14, BST15, DL02, HL15b]. Convergent [Ba88, AL10, Bai16b, BB83, Bor94a, TK97]. converges [Bor94a]. converging [BB86c]. converse [BW98a]. Convex [ABMMY13, BB95c, BB96b, BBL07a, GW99a, BBL97b, BBL97c, BBL99, BB97e, BW97b, Bor79a, Bor80e, BW81a, BW81c, Bor81c, BW81d, Bor81d, Bor82a, BW82a, BW82b, BPT84, Bor84e, BT85, Bor86c, Bor86a, Bor86b, Bor87a, Bor87k, BP87, Bor88l, Bor89j]. convex [Bor90g, Bor90h, Bor90a, Bor90-40, Bor90-41, Bor90-42, Bor90-43, Bor91d, Bor91h, BFK91, Bor91r, Bor91s, Bor91t, Bor91u, BZ91, Bor92d, Bor92g, Bor92h, BL92c, BL92d, Bor92a, BB19b, BB93a, Bor93f, GFV94c, BFV94a, BB94g, BLN94a, Bor94b, BN94, BL94a, BF95c, BV95a, BV95b, Bor95m, Bor95n, Bor95s, BV96c, BLN96, BV97b, MN99, BZ98, BL99, BV00a, BMN00, BM00, Bor00r, Bor01p, Bor01q, Bor01r, BV02, BV04, Bor05-33, Bor05-34, Bor05-35, Bor05-36, Bor05-37, BM90, Bor06-33, Bor06-34, Bor06-35, BZ06, BM09, BGHV99, BM10, BBY12, By12a, Bor12b, BLY13, BLY14, BBY14, Bor14o, BY14a, Bor15i, BG15b, BG15c, Bor15r, BG16b, Gil18, NWY99, PD18, YW12, ZL22, Zhn91, CFG+18, Bor06, How14, Tod03]. convex-concave [Bor86b]. Convexity [BBFG00, Bor07-28, Bor07-29, Bor07-30, Bor07-31, BS11b, BS15a, BB11a, BBC00a, BB00a, BBC01, BB01b, BO76, Bor77a, BO78, Bor78c, BBFG01, Bo07-27, BS10b, BS10c, BS10d, Bor10i, Bor10j, Bor11r, Bor11s, BY12d, BY14b]. convolutions [BBEM10]. Copulas [Bor13k, PHB12, BH19, PHB14]. copyright [BB10b]. correcting [CGM95]. correlation [BR14c, BR14a]. cosmic [B09d, BB11d]. could [BB12b]. Counter [BB17b]. Counter-examples [BB17b]. counterexamples [BV10b, How14]. Counterpart [BB88c, BB91c]. Counterparts [BB15s, BBLZ15b]. counting [BB11e, BB93g]. country [Bor13d, Bor13a]. courses [BB12-44]. crackers [Bor11o, Bor11a]. Crandall [BB12-38, BB15c]. Crash [BB15x, BBLZ15b]. creation [BB09h, BB13-41]. Creationism [BB10c]. creationists [BB13c]. Creativity [Bor99o, Bor12n, Coh15]. Crime [BB15l, BB15w]. Criminology [BB13h]. crisis [BB12-41, BB12-53]. critical [BKW02]. cross [DS20]. Crossing [Goo20]. Crucible [Bor09d, Bor08c, BD09]. Cubic [BB84b, BB88c, HGB93, Hir17, AB15, BB86b, BB90b, BB91c, BB94c, Bor95c, LL01, Liu00, MP18, XY12]. cultures [Sel16]. Cup [BR14b].
Curiosity [BB12g]. curve [Bor90e, Bor90f]. CUSCOS [Bor89c, Bor89d, Bor90y, Bor90z, Bor90-27, Bor90-28, Bor91a]. Cusps [Bor04l, Bor04m, Bor06c]. Cutters [DLR20]. Cyclic [BT13a, BT13b, BBL94, BBL97a, BBL97b, BL08, BLY13, BLY14, BT14c, BT15, DHSZ06, HLY16, XSW12, ZH06]. cyclotomic [HC09].

D [BB09g, BB93g, How14, Odl11, Bor05-46]. D-DRIVE [Bor05-46]. DALBAR [BBLZ14j]. Damping [BC18b]. Danger [BB11c, BB13i]. dangerous [BB12]. Dark [BBLZ14m]. Data [BB14i, BB15h, BB15i, BTZ95, Bor09c, CZX21, BB12-50, BB14h, BBLZ14b, BTZ98, LY21, PHBH13]. dating [BB12d]. David [Hoa05, Sha05, Zei05, Bor03-32, Bor04n, BE16]. Day [BB13y, BB15-28, BB16k, Bor07v, Bor08l, Bor08m, Bor10u, Bor11x, Bor11y, Bor11z, Bor12u, Bor12v, Bor12w, Bor13b, Bor14u, Bor16n, Bor16c, BB14v, Bai17e, BB14c, BB14w, BB15t, BB15j, BB14u]. Days [Bor11d, Bor16n, Bor11h]. DC [Coh15, AMM10]. Decafing [Sol15]. death [BB11c]. December [Bea13, BB13-35, BB13-36, Bor13-30, Bor15m]. Decimal [Bai88, Gan14, BB11e, BBGPxx]. decision [Bea13]. decisions [BB13b, BB13-39]. decline [BB11k, BB11y]. Decomposition [BL92b, Bor04o, CZX21, BB12-50]. Decompositions [Bor06t, BWY10, BV09, Bor90a, Bor90-40, Bor90-41, Bor90-42, Bor90-43, Bor91r, Bor11x, Bor11y, Bor91t, Bor91u, Bor92g, BBLZ14k]. demonstration [BBS+15a]. Demyanov [DP18]. Denial [BB13-44, BB10c, BB12-28, BB13-43]. Denominators [BZ87]. dense [BB96a, BB99c, BBWY11e, BBWY12c, BY12f]. Densities [BSWZ12, BSV15, BSV16, Bor14t]. Density [Hon85, BS16b]. Department [Bor93]. Derivative [BL94, BBL15b]. Derivatives [BB15, BB15k]. detected [BB10f]. Determination [BBB06a, Lai18, BB05, BM97f, BM00, BT14b, BT14a, BT17]. Determinations [BB98c, BB98d]. determined [BB97c, BB05f]. developed [BB11q]. Developments [BB99a, BB01a]. devices [Bor00w]. dian [BB95c]. Dictionary [Bai91, BB88b, BB99d, BB99e, BBL04, BB14a, Bor90, BB91a, BBL04, BV09, BLY16, XSW12, ZH06]. dies [Ano16, BB12-38, Bai16c, Bai20]. Diewert [Bor90b]. Difference [BB11q, BB11a]. different [PHBH13, Zha13]. Differentiability [BB10, Bor90g, Bor90h, Bor90i, Bor90k, Bor90l, Bor91d, Bor92a, Bor02d, Bor02e, BBL04, BV09, BLY13, BLY14, BT14c, BT15, DHSZ06, HLY16, XSW12, ZH06]. Differentiable
Differential

[BM97b, LY18, MR96]. Digit [Bor05g, Ade10, BB12-29, BBG04b, Bor11i].
digit-extraction [Bor11i]. Digital [Bor02f, BS03, Bor03-35, Bor05i, BRR08, BB09k, BB11j, Ban10, BM06, Bor06-36]. Digitally

[BBB+96a, Bor08g, Bor09a, Bor09e, Bor09f, Bor09g, Bor12-33, Bor09u]. Digitally-assisted

[Bor08g, Bor09a, Bor09e, Bor09f, Bor09g, Bor11i]. Digitized

[BB05e]. Digitizing

[BB15s, BBLZ14a, BB14c, BBLZ15b, BB15s, BBSL20, BB12-30, BB12-51, BB12-50, BB12-45].

Distinct [BW95a, BW97a, BFKL00, BFKL01]. Distribution [TB00, BG94a, BG94b].
distributions [BCM02, BCM03]. Ditor

[BO11a, GN16, Mil90, Mil89, MW12]. divergence [Lor08]. Dizionario

[BB95d]. DNA [BB12-50].

Do [BB12-51, BB13s, BB14c, BB1L4a, BB1L5b, BB15s, BBSL20, BB12-30, BB12-51, BB13r, BB14y, BB14w, BBLZ15d, Bor94n, BB15w].

Doctor

[BB12a].
dodgy [BB12a]. Does [BB12v, BB12w, BB15l, BB15m, BB11-28, BB12-50, BB13o, BBLZ16b, BBLZ16a]. doesn't [Bor07q, Bor07p].

Doing

[Bor96b, Bor97a, Bor97b, Bor97c, Bor97d, Bor99e, Bor99f, Bor99d, BS99o, BSS990, BS99a, BB11g]. dollar [BB14e]. domain

[BY12d, BY14b]. done [BB12-45].

Don't [Bor13c, BB11f]. Dountchev

[Bor11-38]. double [BB12h, BZB08, Mer15]. Doubly [BLN94b].

Doubt [BB11t].

Douglas

[AB12, ABT13a, AB13, ABT13b, ABT13c, ABT14a, ABT14b, ABT15, ABT16, AC18, BS10b, BS10c, BS10d, Bor10i, Bor10j, BS11b, Bor11r, Bor11s, BT13a, BT13b, Bor13j, Bor13r, BT14c, Bor14f, Bor14g, BT15, Bor15g,
[BFV94b, BFV94c, BFV94a, Bor17b, Com18, DLR20, BB05b, Bor87m, Bor93p, Bor94l, Bor95s, BZ98, Bou06, Tod03]. Excel [BB13-31]. excluding [BBG04b]. Excursion [Bor87d, Bor88a, Bor88b, Bor88c, Bor88d, Bor88e]. Exercise [BB12r, BB16d]. Existence [BF89b, CG18, Bor82d, Bor83e, Bor84c, Bor88k, BL93b]. exp [BBC08a]. Expansion [Can14, BB83]. Expansions [BB97, BBD04, BB07c, BBCP04, BBD89, BG95a, BBGPxx, BBD16]. expansive [BS10a]. Expectations [BBR13, Bor12g, Bor12h, BR16]. Experience [Bor07d]. experiences [Bor08q, Bor12t]. experiencing [KMT16]. Experiment [BBG03, Bor03z, Bor03-27, Bor03-28, Bor04u, BB04b, Bor05-31, Bor05-29, Bor05-30, BB08h, Bor10a, HF05, Zei05, Hoa05, Sha05]. Experimental [BBG93a, BBG94a, BB99a, BB01a, BB05b, BB06a, BB07b, BB09e, BB09a, BB10d, BB10b, BBZ10a, BBL+13, BB14a, BB15n, BB15o, BB16c, Bai17b, Bai17c, BB18, Bor94c, Bor94d, Bor94e, Bor94p, Bor94r, Bor94q, Bor95e, BBGP95a, Bor95f, Bor95g, Bor95h, Bor95i, Bor95j, Bor95l, Bor95w, Bor96c, Bor99g, Bor99h, Bor99i, Bor99j, Bor99k, Bor99l, BBGPxx, Bor00b, Bor00c, Bor00d, Bor00e, Bor00f, Bor00g, Bor00h, Bor00i, Bor00j, Bor00k, Bor01h, Bor01i, Bor01j, Bor01k, Bor02j, Bor02k, Bor02a, Bor02b, Bor02m, Bor04t, Bor05a, Bor05q, Bor05r, Bor05-38, Bor05-39, Bor05-41, Bor06m, Bor06n, Bor07l, Bor07m, Bor07n, Bor07p, Bor07r, Bor07s, Bor07t, Bor07u, BB08g, BB10l, BaO12, Bor14h, Bor16g, Bor16f, CDH+21, CC20b, JB21, dPB21, AMM10, BBKW06, BB14t]. experimental [BB16a, Bor93p, Bor93q, BBGP95c, BBGP96, BC98b, BC99, Bor08c, Bor08d, BB09f, BB11-31]. experimentally [ABBS12, Bor93j, BB11-31]. Experimentation [BB12y, Bor92i, BBGP95b, Bor03k, Bor03l, Bor03m, Bor03n, BB04a, Bor04q, Bor04r, Bor04s, Bor09h, Bor09i, Bor10l, Bor10m, Bor11t, Bor12-33, Bor12i, Bor13m, Bor13n, BB11j, BB12z, Bor09u, Sha05, Zei05]. Experimentelle [BB11]. experimenting [KMT16]. Experiments [BBG03, BBG06, CS21]. Explainer [BR12, BR13b, BR14a, Tre13]. Explicit [BB06b, BB84d, BB87a, BL92d, BBGP94b, BBGP95c, BB86b, BS10a]. Exploration [BB12y, BB16n, BB16m]. Exploratory [BB11j, BB12z, Bor09h, Bor09i, Bor09u, Bor10l, Bor10m, Bor11t, Bor12-33, Bor12i, Bor13m, Bor13n, Bor14i, Bor14j, Bor14k, Bor14m, Bor14n, Bor15h]. Exploring [Bor01l, KMT16]. Exponential [BB94b, BG03b]. exposes [BBLZ15g]. exposing [Bor78b]. Expressions [BSW82, BBK14]. Extended [NWY09, NY09, BBC14b]. Extending [SV20]. Extension [Cos17, La 09, Bor82e, DABY15, Mil90]. Extensions [Bor10x, Bor11-30, Bor88g, Bor88h, Bor88i, Bor94b, BGV02, BMV06, BBGW11]. extraction [Ad10, Bor11i]. Extraordinary [Bai16d]. extraterrestrial [BB11g]. Extremal [PR92]. Extreme [Bor06m, Bor06n, GDT15, JD13].

facts [BB11k]. fail [BW98a]. failing [BB98a]. failure [BB12k]. fall [PD18]. fall-back [PD18]. fallacy [BBLZ14n]. False [dPB21]. Familiar [BB88e, BBxxa]. family [BB15e, Bor79c, Bor80c]. famine [BB12-27]. FAMS [BBS17]. Fan [BZ86]. FAQs [BBLZ14c]. far [BB11n, BB11d]. Fared [BB15r, BBLZ14f]. Farkas [Bor79d, Bor83d]. Fast [BB84a, BZ92, BLN95, BB97b, BB00b, BB04a, BD16a, BH95, BB16t, BD18]. FBAS [BBS17]. Favourite [BB07-28, Bor07-29, Bor07-30, Bor08u]. FBAstMS [BBS17]. 

Feasibility [ABT13a, ABT14a, ABT15, BB95c, BB96b, BT13b, Bor16u, Bor16v, Bor16w, Bor16x, Bor16y, ABT16, Bor12p, BT15, Bor15z]. Feasible [BB84a, BZ92, BLN95, BB97b, BB00b, BB04a, BD16a, BH95, BB16t, BD18]. Fast [BB84a, BZ92, BLN95, BB97b, BB00b, BB04a, BD16a, BH95, BB16t, BD18].

Familiar [BB88e, BBxxa]. family [BB15e, Bor79c, Bor80c]. Famine [BB12-27]. FAMS [BBS17]. Fan [BZ86]. FAQs [BBLZ14c]. far [BB11n, BB11d]. Fared [BB15r, BBLZ14f]. Farkas [Bor79d, Bor83d]. Fast [BB84a, BZ92, BLN95, BB97b, BB00b, BB04a, BD16a, BH95, BB16t, BD18]. FBAS [BBS17]. Favourite [BB07-28, Bor07-29, Bor07-30, Bor08u]. FBAstMS [BBS17].
frame-based [FN15]. – **Framework** [Roc20]. – **franc** [BBLZ15g]. – **France** [CGM95]. – **Frank** [BB13k]. – **Frankowska** [Bor92b]. – **Fraser** [BBJC97, Bor89a]. – **Fraud** [BB13l, BB90c, BB92a, BB11s, BB11f, BB13-33]. – **Frechet** [BV10a, BF93a]. – **Fredholm** [Bor92a, Bor93k]. – **French** [Dev9x]. – **frequency** [BBLZ14o]. – **Friedman** [BB13d]. – **Fritz** [Bor76e]. – **FRSNSW** [BBS17]. – **Function** [BZ87, BB05c]. – **Fundamental** [BB05g, Bor13d, Bor13a]. – **Funding** [Bor07o, BB10i, BB13-39]. – **funds** [BBLZ15a, BBLZ16c]. – **Further** [BV93b, BV94d]. – **Fund** [BBLZ14h]. – **fund** [BBLZ14h]. – **Fundamental** [BB05g, Bor13d, Bor13a]. – **Funding** [Bor07o, BB10i, BB13a, BB13-39]. – **funds** [BBLZ15a, BBLZ16c]. – **Further** [BV93b, BV94d]. – **Fusion** [BBLZ15a, BBLZ16c]. – **Future** [BF93a, BB05a, BB16c, BB16a, Bor05a, Bor07a, Bor08i, Bor10p, Bor15j, BB12-39, BB12h, BB16m, BD95, Bor95t, Bor95u, Bor98c, Bor99f, Cam16].

**Gâteaux** [BF93a, BF93b]. – **game** [BB12d, BB15b, BB15c]. – **games** [BB12s, BB12m]. – **Gamma** [BBLZ15a]. – **gas** [BB14s, BB14o]. – **Garvan** [Hir17]. – **gas** [BB12-27, BB12e]. – **Gateway** [Bor04j, Bor04k]. – **Gauss** [BB12s, BB12m].
[Bor87d, Bor88a, Bor88c, Bor88d, Bor88e, Borxx, Cos17, TK97].

Gaussian [Cha03]. Gems [AMM10]. General
[BB06b, AB15, BBWY11a, BBWY12a, Bor85c, BV00b, BV01, Bor07x].

Generalisation [BLS+16]. Generalisations [Bor17b]. Generalization
[Mil89, YS00, AB15, Bor97g, Bor98g, LS00]. Generalizations [TB80].

Generalized [Bor85c, BV00b, BV01, Bor07x, BBWY11a, BBWY12a, Bor88c, Bor88d].

Generated [SZ14]. Generating [Bor07g, Bor07k, Bor91n, BB93e, Bor06h, PHBH12].

Generation [PHBH13, BB16l, BCJW13]. generator [BB13x].

Generic [Bor86e, Bor99m, Bor99n, Bor00l, Bor00m, Bor86b, BF93b, BW98b, BW00, BK01].

Geometric [BB84a, BLM96, BB97b, BLM97, BB00b, BB04a, Bor87d, Bor88a, Bor88b, Bor88c, Bor88d, Bor88e, Bor88f, Bor89e, BB93b, BB16t, IP17, IP18].

Geometry [Bor09-27, Bor11u, Bor80a].

German [BB96d, BD11].

get [BB09f, BB14-28]. Getting [BB13m].

Get [BB12-28, BB14-28].

Glenn [BE16].

Global
[AB12, AB13, ABT15, ABT16, BB12-28, BB10c, BB12c, NFB17a].

globalization [GS02].

Glum [BB13n].

go [BB15a].

goals [BB10h, BB12-32, BB12-33].

goes [BB11u, BB05k].

go [BB12c].

Going [BB12c].

Goldbach [BB05c, BB06c, BB07d, BB10b, BB10-31].

Golden [Adel14a].

Good [BB00j, BB00k].

googol [Cra12].

Googol [Cra12].

googol-th [Cra12].

Got [BB15t].

Gowers [Bor99b].

Gradient
[BB88a, CZX21, SI16, SD15, BFKL00, BFKL01, BFL02, DL02, DLL05, DK16, GS02, Li15, LL13, Mar91, MP18, NFB17a, NFB17b, QYX14, Ray93, Ray97, WSDSY15, XH08, XSW12, XWQ14, YW12].

Gradients [BB99m, BB99n, BB00l, BB00m].

Grading [Swe17].

Graph [AC18].

graphics [BJCW13].

Graphs [BB93b, BB88, BF93g].

Graves [BD03].

Gravitational [BB14m, BB16f].

great [BB11k, BB13d, BB13a].

Greatest [BB11l, BB11m, BB110f].

greco [BB08a].

Greek
[BS14b, BS14a, BB90o, BB90p, BB94f, BB90a, SV14].

Green
[BB90b, BB12-27, BB12c].

Grid [BB03b, BB03c, BB03a, BB04e, BB04a, BB04b, BB04c, BB04d, BB04f, BB05-28, BB07d].

ground [BB12-30].

Groups
[BB16j, BB16k, BB16c, BB15a, BB15f, BB15c, BB16i, BB18a].

Grove [Bai91].

guarantee [Cam16].

Guessing [Sei01].

Guide
[BB02].

Gun [BB15l, BB15w].

guru [BB12-28].

guru [BB12-28].

Handbook [Sch15].

hardware [BB00w].

Handling [BB03p].

happen
Intriguing [BB98c, BB98d]. Intrinsic [Kru18]. Introduction [BZ20a, BC21, Bor97l, Bor02o, Bor07r, Bor07s, Bor07t, Bor07u, Bor09s, Bor09q, BR10, Bor11k, Bor11l, Bor13g, BvdPSZ14, Bor20, Brec02b, BL20, Bor08c, BD09, Bor10s, BD11, BS11c, BS12a].

Invariance [BLZ99, BLZ01]. Invariants [BB98c, BB98d]. Invent [BB11r]. Invented [BB12-38]. Inverse [Bor97h, Bor08p, Bor09t, Bor09v, Bor10k, Bor10v, Bor10w, Bor10q, Bor13l, Bor13p, AL10, BBC++11b, Bor92k, Bor92l, Bor92m, Bor12p, BT14b, BT14a, BT17]. Investigation [BBGPxx].

Investing [BB14n, BBLZ13c, BBLZ13h, BBLZ14g]. Investment [BBLZ13a]. Investments [BBLZ15g]. Investor [Bor14c]. Investors [BBLZ13b, BBLZ15b, BBLZ15c].

Investing [BB14n, BBLZ13c, BBLZ13h, BBLZ14g]. Investment [BBLZ13a]. Investments [BBLZ15g]. Investor [Bor14c]. Investors [BBLZ13b, BBLZ15b, BBLZ15c].

Investing [BB14n, BBLZ13c, BBLZ13h, BBLZ14g]. Investment [BBLZ13a]. Investments [BBLZ15g]. Investor [Bor14c]. Investors [BBLZ13b, BBLZ15b, BBLZ15c].
L [Bai16a, Bor11-38, SV14]. L. [BSW82]. Laboratories [Bor99b, Bor99c]. Labs [BL99, Bor99p]. ladder [BB11d]. lagging [BB13-27]. Lagrange [BMCL18, Bor80b, Bor81d, BZ16]. Lagrangean [Bor79b]. Lagrangeans [Bor80d]. Lagrangian [Bor81e]. Laguerre [BBC07c, Bor07i, Bor07j, BBC08b]. Lambert [Bor16l, Bor16m, BL16]. Large [BBKL16, BBKL17, JWDS+14, BBLZ13d, BBK14, DF05, LW18, LW19, Ray97, WM07, XH08, ZSZ16]. Large-Scale [JWDS+14, DF05, LW18, LW19, WM07, XH08, ZSZ16]. large [Bor10-30]. last [BB13t]. Later [BB13s, BB13r, BD95]. Latest [BB10h, BBLZ14j, BB12o, BB12-50]. Latin [BS14b, BS14a]. Lattice [BBCZ13, BLL94, BB94b, BBP95, BGM+13, BB13g, BBT85, BBS89, BL92d, BBS87, BY84, BS84b, BBSZ88]. Lau [Bor13h]. Launch [Bor03-31]. Laurie [Bor05g]. Lawrence [Bor07c]. laws [BB10b]. Leader [Bor09b]. leadership [BB12-44]. leads [BB13w]. Learned [Dev20]. Learning [Bor05-42, Bor05-43, Bor05-44, MTB16]. Lecture [Bor06q, Bor06p, Bor09-27]. Lectures [Bor06r, Bor06s, Bor06t, Bor06u, Bor09-30, Bor09-28, Bor09-31, Bor09-29, Bor09-27, Bor13-31, Bor15r]. Legacies [BaHO20]. Legacy [BBB+20, Dev17, BBC14c, BBC14d, BBC15]. Legendre [BB95b, BB97a, BBC00a, BBC01, Bor87d, Bor88a, Bor88b, Bor88c, Bor88d, Bor88e, BV00b, BV01, BV10a, BY14a, TK97]. Legendre-type [BY12a, BY14a]. Leibniz [BW97]. lemma [Bor79d, Bor83d]. Length [BCM20]. LENR [BB15f, BB15g, BB15h, BB16i]. lesson [BB13t]. Lessons [BBLZ15f, BB15x, KMZ+03]. let [Bor13c]. Letter [Bor11b, CW16, Cha116, Zäl86]. Level [BB93b, BS99d, Bor06s, Bor11g, Bor11-37, BS99b, BS00]. Levi [Bai16a]. Lewis [Bor06, Tod03]. Lexicographic [Bor80c]. Library [Bor02f, Bor03-35]. Life [BB12-37, BB13f, BBB+20, BB91d, BB93m, Bor03q, Bor03r, Bor03s, Bor03t, Bor03u, Bor03v, Bor05y, Bor05z, Bor06-27, Bor07v, Bor08i, Bor08m, Bor10t, Bor10u, Bor11w, Bor11x, Bor11y, Bor11z, Bor12o, Bor13o, Bor14p, Bor14q, Bor14r, Bor16o, Bor16m, Bor16n, BB11g, BB12g, BB13e, Bor91p, Bor91q, BM06, Bor08a, Bor15b]. light [Fab89]. Like [BB995, WSL16, AG99, BBB05, BB06a, B87m, BL91b, BB96c, BB97c, Bor97v, Bor97w, BBP98, BB05f, BB05c, Bor07-27, Bor15d, DABY15, GDT15, Gui17, JD13]. likely [BB16g, BB16h]. Liljedahl [Coh15]. Limit [BS17, BF93c, BF95b]. Limiting [Bor79b, BZ98, Bor80d, Bor81e]. Limits [CS21, WG17, BBS13b, BB814b]. line [BW03, IP17, IP18, YW12]. Linear [BB93b, Bor72, BB86, BB814a, HMM20, BB95a, BB96a, BBL97c, BB99c, BBL99, BB900, BBW07, BWY10, BBWY11e, Bor84a, BFG87, BD89, Bor93b, BM09, BM10, BY12b, BY13b, DL02, DLL05, DABY15, HLZ14, HLY16, KJR16, LLS11, LZ14, Li15, ZL22]. Linearly [CPR20, DGLV20]. lines [Bor79h]. link [BB15e]. links [BB98c, BB98d]. Lipschitz [BB11a, Bor87m, Bor90g, Bor90h, Bor91i, Bor90j, Bor90l, Bor90z, Bor90-27, Bor90-28, Bor90a, Bor90-40, Bor90-41, Bor90-42, Bor90-43, Bor91d, Bor91a, Bor91r, Bor91s, Bor91t, Bor91u, Bor92a, BFV93a, BFV93b, BFV95a, BM95, BMW95, Bor95d, BM96a, BM96b, BFV97, BM97c, BM97d, BM97e, BMW97,
BM98a, BW98b, BM98b, Bor98o, BW00, BVW01, BFL02, BGV02, BW03, BVW03, BW05b. Lipschitz-constant [BVW01, BVW03]. Lipschitzian [BBEM10, BS84a, BLM99, BLM00]. Lists [Bor05h, Bor05-27]. literacy [BB13n, BB13m]. Literature [BB14n, BBLZ14e]. Literature [BB05e, BM07a, Bor02g]. little [Bor91j]. Littlewood [HC09]. live [BB13j]. Locally [BV93a, BFV93b, BB11a, BFV97, QR07]. Locally [JY12]. Log [BB84e, BS11a, BBSW11, Bor11f, BS11d, BS11e, BS12b, BBSW12, Bor12r, BB15, BS13]. Log-gamma [BBB15]. Log-sine [BS11a, BBSW11, Bor11f, BS11d, BS11e, BS12b, BBSW12, BS13]. Logarithmic [BB93f]. Logarithms [BCLM16, BHL16b, BHL16a, BCLM17, BHL17, Cha03]. Logsine [BB14p, BB14q, BB13m]. Low [BB14n, BBLZ14e]. Lowell [Bor77d]. Lower [CPRZ20, Bor90k, BMS13, BBLZ14j]. LRP [Bor05-28]. MA [BB97d]. Make [BB12h, BB12a, BBLZ13b]. Making [BBGP95c, BBGP96, Bea13]. Malaises [BB93g]. Man [BB91d, Bor15b, Bor16d]. Manage [Bor12n]. Management [BS03, Bor09o]. manifolds [BB98c, BB98d]. Mann [BBS16a]. Many [BB16r, BB15q, BB16q, BR84]. MAPLE [Bor89f, Bor90-29, Bor90-30, Bor90-31, Bor90-32, Bor90-33, Bor90-34, Bor90-35, Bor90-36, Bor90-37, Bor90-38, Bor90-39, Bor92c, Bor92e, BL92e, BM97b, Bor06z, BS11c]. mapping [BB98a, BB99b, BM97f, BM00]. Mappings [RZ18, BB95a, BS83, BS84a, BS84b, Bor86b, Bor91d, Bor92a, BM97e, BM09, BM10, Bor11-38]. Maps [Bor09-29, GLR18, BZ88]. March [IMR92, BB13v]. Market [BB15r, BB15b, BBSL17b, BBS16a, BBLZ14a, BBLZ14d, BBLZ14f, BBLZ14q, BBLZ14i, BBLZ15c, BBSL16a, BBS17a]. Markets [BBS16a]. Mars [BB12g, BB12-37]. Martians [BB12-37]. Marvels [Bor02p]. Massachusetts [BB13w]. Master [Zei05]. mate [BB12-36]. matematica [BB95d]. Math [Bor81a, Bor98o, Bor99d, BL99, Bor01e, Bor01l, Bor01m, Bor02s, Bor02t, Bor03g, Bor06m, Bor06n, Bor07w, Bor08n, Bor08o, BZ11, KMZ+03, BB10j, BB11q, BB11x, BB12v, BB12-44, BB12-49, BB13w, BWB97, Bor98r, Bor14b].
Maths

matrices

Matrix

Matter

Matters

Mattingly

mature

Max

Maximal

Maximality

Maximizations

maximize

Maximum

May

Mean-Value

Meaning

Means

Measures

Medieval

Meet

meets

Melbourne

Memorial

Merchants

mesh-independent

mess

Meters

Method

Methodology

Methods
DLR20, PR92, Sch15, ABT13c, BB05b, BB10g, Bor92k, Bor92l, Bor92m, Bor94g, BLN95, Bor95m, Bor95n, Bor98k, BZ06, Bor12p, Bor13j, BZ13, Bor14f, Bor14g, BT14b, BT14a, Bor15g, BST15, Bor15r, Bor16p, BT17, DF05, GDT15, HNP10, HL15b, JD13, PHBH12. Metric [BBT98, BGM18, BK80, BZ95, BZ96]. Metrical [HMM20]. Michel [Bor17b]. mid [BBLZ14]. mid-term [BBLZ14]. Might [CDH21, Bor07-27]. million [BB14e]. millions [BB15q]. mine [BB12h]. ming [IL09]. Minimal [Bor89c, Bor89d, Bor90y, Bor90z, Bor90-27, Bor90-28, Bor91a, BFK91, Bor95o, Bor95p, BF89a, BM97e, BK04]. Minimality [Bor87c, Bor82b, Bor86d, Bor87b, BM97f, BM00]. minimax [BZ76, Bor14z, Bor16-27]. Minimization [BLL94, BLN94b, Bor09-30, Bor09-28, Bor09-29, Bor09-27, BL91b, Bor92j, BV09, NWY10, Ray97, XWQ14]. minimizing [HL15a, NWY09]. minimum [Bor79c, Bor80e]. miraculous [Fin95]. miscalculate [BB11c]. Missing [Bor09c, BB15e]. Misuse [BB09h]. mixed [BH19]. MKM [ABD03, BF06b]. modal [Bor96e]. model [Bor16h, Cam16, ZSZ16]. Modelling [Bor13q, BHP14, PHB14, Bea13]. Models [JJ20, BL92d, Cam16]. Modern [Bor09z, BB12-34, BB12-35, BB15b, BB15o, BS11c, BS12a]. Modernne [Fal96]. Modified [LL13, BS17, Ja124, XSW12]. MODESIM [Bea13]. Modular [BBB97c, BB09, BB04b, BB16, BBB97a, BB95b, BB09, BB86f, BB87g, BB87f, BB99a, BB99c, Liu00]. moduli [Zha13]. modulo [ZS12, ZZ14]. Moll [Odi11]. moment [Bor90c, Bor90f, BL91c, BGL93, BH94a, BH94b, BL94a, BH95]. Moments [BS07, BS08, Bor10x, BBGW11, Bor11-30, Bor14t, BS16a, TB00, BBBG08, BH19]. Mono [Ber88]. Mono- [Ber88]. Monochrome [Bor79h]. monoids [Bor15b, Bor16]. Monotone [AHLC17a, AHLC17b, BBWY11d, BBWY13, Bor72, Bor02b, Bor04a, Bor05-34, Bor05-35, Bor05-36, Bor05-37, BW06, Bor06s, Bor06t, Bor06-34, Bor06-35, Bor06-31, Bor09-29, BBY11, BEY11, BHY11, BC12c, BC13, BD15, BML18, EB08, LLT18, Sim18, BB95a, BBC03, BBW07, BWY10, BBWY11b, BBWY11c, BBWY11e, BBWY12b, BBWY12c, Bor86b, BF89a, BF91k, Bor89n, Bor02d, Bor02e, BBL04, BW05a, Bor06-32, BW07, Bor07b, Bor07x, BE08, BG09, Bor12j, Bor12k, BY12f, BY12b, BY12d, BY12e, BY13b, BY13a, BY13c, BY14b, BY14c, BY15, BD16b, HLZ15a, SZ14]. Monotonicity [Bor09j, Bor09k, Bor12y, BBS15b, BBS20, BBB+07, BB96a, BB99c, BBWY11e, Bor82c, Bor06-30, Bor10n, BRS11, Bor12j, Bor12k]. Month [bVP21]. Monthly [BB07a, BB12-47, BB09, BB09m, BB10k, BC15a, BC16, BC18a, bVP21]. Montreal [KG04]. Moore [BB12-39, BB12h, BB15z, BB15y, Bor15l]. morass [BB10b]. Mordecai [Bor90b]. Mordell [BBC13b, BB13a, BB13b, BB13c, BB13d, BB13e, BB13f, BB13g, BB13h, BB13i, BB13j, BB13k, BB13l, BB13m, BB13n, BB13o, BB13p, BB13q, BB13r, BB13s, BB13t, BB13u, BB13v, BB13w, BB13x, BB13y, BB13z]. Morozov [BMCL18]. Mosco [BB09a, BB93b, Bor88j, BF89c, BV93a, BV94c]. most [Bor16b]. Motivation [Bor09-30]. motive [BB09d]. Movements [BB13-44, BB13-43]. movies [Bor15b]. MR [Bor81a]. MR0716121 [Zal86]. MR0991866 [BBB97a]. MRI [Ja124]. much [BBLZ15d]. Multi
Multi-dimensional [Bor96e, Bor97m, BBM01, BBM02, Bor97f, Bor16h]. Multi-disciplinary [Bor97m, Bor97f]. Multi-modal [Bor96e]. Multi-variable [BBM01, BBM02]. Multidimensional [Bor96f, Bor96g, Bor96h, BH06, BTBT88, Bor97q]. Multifunctional [Bor98k, BZ99a, BZ99b]. Multifunctions [Sim18, BF94a, Bor94b, BF95a, Bor95o, Bor95p, BMS97, BMS99a]. Multimodal [Bor97n]. Multi-objective [MPB16]. Multivalued [Bor77a, Bor79d]. Multivariable [Bor00r, Bor01p, Bor01q, Bor01r]. Multivariate [HYG09, BL92b]. Museum [BB13-41]. Music [Bor12s]. Musicians [BB16r, BB16q]. Mysteries [Bor11-31]. mysterious [BB12-27]. myth [BLBZ13e].


Neverending [BvdPSZ14]. Newcastle [Bai17a]. Newfoundland [IEE08, SBW84]. Newly [BB12i]. news [BB12t, BB12a]. Newton [BBW97, CDH+21]. Next [Bor02c, Bor02q, BB16i]. NI [BE08]. Nielsen [BS15b]. Nikodym [GLR18]. NJ [Bor09b]. NMR [BMN98, BMN00]. No [BB13r, BB13a, BM97a, BB13i, BKW02, Cam16, Zal86, BB12-34, BB12-35]. no. [BZ02a]. Nobel [Bor14b]. Noether [BB12x]. noise [Jal24]. Non [ANR18, Bor72, Bor05-33, Bor06-33, Bor13p, Bor13p, Bor13p, Bor16u, Bor16v, Bor16w, Bor16x, Bor16y, Gil18, AB12, AB13, BBWY11b, BBWY12b, BZ94a, BE08, BS10a, Bor15r, LL13, Sel16, BM07c]. Non- [Bor05-33, Bor06-33].

Non-Convex
[Bor16u, Bor16v, Bor16w, Bor16x, Bor16y, Bor13p, Gil18, AB12, AB13]. non-expansive [PS10a]. Non-Linear [Bor72]. non-negative [LL13]. non-reflexive [BBWY11b, BBWY12b, BZ94a, BE08]. Non-Smooth [ANR18, BM07c]. non-Western [Sel16]. nonattaining [BK01]. Nonconvex [AB15, BC18b, Bor10k, Bor13r, ABT16, BJ97, BZ98, BJ98, Bor12p]. nondifferentiability [BG09]. Nonexpansive [BS83, BS84b, Bor09-29, BR511]. Nonisolated [AI18]. Nonlinear [BBC09, Bor99a, BL00a, BZ02a, BZ02b, Bou06, Dil20, Tod03, BL06, IMR92, ZL22]. nonlocal [PT14]. Nonmonotone [BL17a, BL17b, GS02, QYX14, XWQ14, AP16, IP17, IP18, Li15, NFB17a, NFB17b, YW12, ZSQ10]. nonnegative [HNP10, HLZ15a, HLZ15b, WM07]. Nonnormality [BB12-40]. nonreflexive [BL93a, BV93b, BV94d, BZ94b, BZ97]. nonsense [BB12-42, BB12-43, BB13d, BB13-34]. Nonsmooth
[BC18b, Bor94h, Bor94i, Bor94j, Bor94k, BM07d, CFG+18, WB87, Bor98k, BZ99a, BZ99b, BW87, Bor98k, BZ99a, BZ99b, XWQ14, YW12]. noon [BBLZ15c].

Norm [Bor86a, BST13, BST15, Ara07, Ara08, BFG03]. Normal [BB13x, BB14c, BB13y, BB14w, BCJW13, BG87]. Normality [BBC+11a, BBC+12b, BBC+12c, BBC+12a, BN84]. Normed [BFV94b, BFG87, BRS92, BFV94c, BFV94a, Bor94l, Bor95s, BLM99, BLM00]. Norms [BBL10, BY84, BV93a, BV94c, BJS00, BJS02, BGV02]. notation [BB11c]. Note [BMCL18, BB86a, BM97a, Bor76b, Bor80d, Bor82c, Bor83d, BF94b, Rei02, Tha02]. Notes [Bor06-36, HC09]. notion [BN03]. Notions [Bor87c, BG01, BG03a, Bor86d, Bor87b]. novel [Ade12].

NSW [Bai17a]. Nuclear [BB14q, BB14p]. Null [BM96b, BM98b, BF95c, Bor95a, Bor95b]. Number [Ber88, BB87d, KG04, Wim88, BB11-27, BB13-42, BB13-47, BB16p, BCJW13, BCJW13, BB93d, BB96d, BB98b, BSZ13]. Numbered [Bor11d, Bor11i]. Numbers [Bor11d, Bor11i]. Numeracy [BB09i, BB12-41, BB12-53]. Numerical [AX20, BB08e, BB12-42, BB12-43, BS99d, BS99b, BS00, Bor00s, Bor09t, Bor13-28, Bor13-29, Bor16-27, Bor16-28, Bor16-29, Bor16-30, Bor16-31, Bor16-32, Bor16-33, Bor16-34, Bor16-35, Bor16-36, BP09, Bai91, Lor90].

Numeracy [BB09i, BB12-41, BB12-53]. Numerical [AX20, BB08e, BB12-42, BB12-43, BS99d, BS99b, BS00, Bor00s, Bor09t, BB11b, Bor05g, MR96]. numerique [Bor00a]. Nurturing [Bor13-30].

O [BB13-45, BB13-46]. Obituary [BBS17]. objectives [Bor91h, Bor92d]. Objects [Bor06s, Bor91e, Bor91f, Bor91g, Bor91j, Bor91k, Bor91l, Bor91m, Bor92e, Bor92f, Bor92g, Bor92h, Bor05-34, Bor05-35, Bor05-36, Bor05-37, Bor06-34, Bor06-35]. Observations [BB92b]. odd [BS16b]. odds [BR14b]. Odyssey [BB12u, BB12a]. OEIS [Bor15d, Bor16a, Bor17a]. Official [Bor13-31]. often [Bor15a]. oil [BB12-27, BB12e]. Old [BB14-32, BB12-31, BB12d, BB15q, BB15z, BB15y, Bor15l]. Olver [BB13k]. once [BB13-47, BB15-28]. One [BB97c, BB00b, Bor03-33, BB04b, BB16, BB97a, BB89, BF94a, Bor94b, BF95a, BCFR04].

one-dimensional [BF94a, Bor94b, BF95a]. Online [BS+15a, BB97b, BB97b, BBLZ14k, Bor01f]. only [BB13-39]. ontological [BB15b, BB15o]. Ontology [DD15, BB15b, BB15o]. Open [Bor88k, Bor03-34, Pea07, BBS13a, BB13-35, BB13-36, BB98a, BB99b]. openness [Bor87a, BZ88]. Oper. [Zä186]. Operator [BY12c, BBWY11c, BBWY12c, BY12b, BY12d, BY13b, BY14b, BY15, BG16a, BG18b, KMY00]. Operators [AHLC+17a, AHLC+17b, Bor72, Bor04o, BW06, Bor06t, Bor06-31, BBY11, BML18, EB08, LTL18, BB96a, BB99c, BBW07, BBW11b, BBWY11d, BBWY12b, BBWY13, Bor82a, BPT84, Bor84e, Bor86e, Bor86b, BF98a, BF991, Bor92n, BT92, Bor98n, BRLZ99, BLZ99, BRLZ00, BLZ01, Bor05-34, Bor05-35, Bor05-36, Bor05-37, Bor06s, Bor06-34, Bor06-35, Bor06-32, BW07, Bor07b, Bor07x, BE08, BRS11, BEY11, Bor12j].
Bor12k, BY12f, BY12e, BBY13, BY13a, BY13c, BY14c, RZ15. **Opinion** [BBS13a, BB15m]. **Opportunities** [BB13q, BB14a, BBC+14a, BB14t, Hol20]. **Optimal** [NFB17b, Pos13]. **Optimality** [BW79a, LY18, BW81c, BW82a, BW82b]. **Optimisation** [Bor74, Bor81b, Bor81c, BBY13, BY13c, BBY14c, RZ15]. **Optimization** [Bor17b, BM07c, JN03]. **Optimal** [BW79a, BW81c, BW82a, BW82b]. **Optimality** [BW79a, BW81c, BW82a, BW82b]. **Opportunity** [BBS13a, BB15m]. **Outlook** [BB11b, BB14d, BB14r]. **Out-of-sample** [BBLZ14a]. **Out-of-sample** [BBLZ14s]. **Outperform** [BBLZ14a]. **Ouvrages** [Bou06]. **Oscar** [IEE08]. **Oscillatory** [BB10d]. **Other** [BB11o, BB15s, BBLZ15b]. **Overview** [Bor09-30]. **Oxford** [BB93g, Bor06o, BO11b, Bor06o]. **Ox** [Bor11m, Bor11n]. **P** [Bor92b]. **PA** [Bor05g]. **PACBB** [ZH06]. **Pacific** [Bai91]. **Pack** [BBLZ13a]. **Overfitting** [BBS+16a, BBLZ17, BBLZ14c, BBLZ14s, BBS+15a, BBLZ16b, BBLZ16a, BBLZ16c]. **Order** [BC18b, BD86, Bor87e, EB08, BB84b, BB84d, Bor86e, Bor87a, BD89, Bor92g, Bor92h, Bor93f, Bor93g, BF93b, BN94]. **Order-bounded** [Bor86e]. **Orderings** [Bor74]. **Organic** [Bor96i, BBJC97, BJ12, BBC+96, Bor97e, BBC+97b, BBJC97]. **oriented** [BD11]. **Orignami** [AD20]. **origin** [BDT16, BG16a, BG16b]. **originating** [Bor05j, Bor06i]. **Origins** [BS14b, BS14a]. **OSCAR** [IEE08]. **oscillatory** [BB10d]. **Other** [BB11o, BB15s, BBLZ15b]. **Overview** [Bor09-30]. **Oxford** [BB93g, Bor06o, BO11b, Bor06o]. **Oz** [Bor11m, Bor11n].
Bor05w, Bor05-47, Bor05-48, Bor05-49, Bor05-50, Bor05-51, Bor05-52, Bor06z, Bor06w, Bor06x, Bor06y, Bor06-37, Bor06-38, Bor06-39, Bor07f, IEE08, BBLZ13d, BBLZ14b, BBLZ14j, BBLZ14s, Cam16, MTCB98]. Person [BB12j]. personal [Bor14c, Mic03]. Perspective [Bor98h, Com18, Bor14c]. Perth [Bea13]. perturbation [BCFR04]. perturbations [BZ94a, BZ94b, BZ97]. Perturbed [DGLV20, BV09]. Peter [Bai91, Cih15, Bai20, Bor08s]. Peters [Ban10, Od11, Sha05, Zei05]. Phelps [BBWY11c, BBWY11e, BBWY12c, TSB13]. Philadelphia [Bor05g]. Philosophical [Bor09q, Bor05r, Bor05-38, Bor05-39]. Philosophy [Bor98i, Bor14c, GS08, BB14o, BB14-29, Bor08b]. physicist [BB12-38]. Physics [BB08a, BBC09, BBBZ10b, BB15i, Fer91, BBBZ10a, BB12x, BB12b, BB15h, BB15p, Bor10q]. PI [Bor90q, Bor90r, Bor90s, Bor90t, Bor90u, Bor90w, Bor90x, AH01, BB11u, BB13c, BB13z, BB14f, BB14g, BB14c, BB14v, BB15t, BB15-28, BB16k, BB16l, BBBR16, Bai17d, BBBR17, BBB97b, BBB00a, BB03, BB04a, BB87d, Bor89e, BB89d, Bor89f, Bor90-29, Bor90-30, Bor90-31, Bor90-32, Bor90-33, Bor90-34, Bor90-35, Bor90-36, Bor90-37, Bor90-38, Bor90-39, Bor91i, Bor93h, Bor93i, BG97a, BBD97, BB97c, Bor97r, Bor97s, Bor97t, Bor97u, Bor97y, Bor98i, BB98b, Bor98b, Bor99v, Bor99-28, BBx00, BB00b, Bor03q, Bor03r, Bor03s, Bor03t, Bor03u, Bor03v, BB04, BB04b, BB05y, Bor05z, Bor06-27, Bor06v, BB08i, Bor08m, Bor10t, Bor10u, Bor11v, Bor11w, Bor11y, Bor11z, Bor11d, Bor11h, Bor12o, Bor12u, Bor12v, Bor13o, Bor13s, Bor13j]. PI [Bor14s, Bor14q, Bor14r, Bor14u, Bor14-27, Bor15k, BC15b, BC15a, Bor16u, Bor16c, BBD16, BC16, Bor16b, BB11b, BB13, Bre17, Bre20a, Fin95, Gan17, Gui16, Sei01, AL10, BBP96, BBP97, BBB97a, BBC+12a, BB13b, BB14w, BB14-28, BB84d, Bor86f, BB87a, Bor87g, Bor87f, BB89b, BBD97, Bor90-38, BBx00, BB00b, Bor03q, Bor03r, Bor03s, Bor03t, Bor03u, Bor03v, BB04, BB04b, BB05y, Bor05z, Bor06-27, Bor06v, BB08i, Bor08m, Bor10t, Bor10u, Bor11v, Bor11w, Bor11y, Bor11z, Bor11d, Bor11h, Bor12o, Bor12u, Bor12v, Bor13o, Bor13s, Bor13j]. Pioneer [BB16i, BB15u]. PISA [BB13-27]. pitfalls [Bor94c, Bor94d, Bor94e, Bor95f, Bor95g, Bor95h, Bor95i, Bor95j, Bor95k, Bor95l, Bor96c]. Plagiarism [BB13-28]. Plan [Bor94p, Bor05l, Bor05m, Bor05n, Bor05o, Bor05p, Bor06l, R+05, Bor03x, Bor03y, Bor06-28]. plane [Bor99h, BNSW10]. Planet [Bor13t, BB12-51, BB12-52, Bor06f]. plates [BB91d]. Plausible [Bor93c, Bor93d, BB03, Bor03z, Bor03-27, Bor03-28, Bor03-29, BB04b, Bor04-27, Bor04w, Bor04x, Bor04y, Bor04z, Bor06-29, Bor10a, Hf05, H0a05, Ze005, BB11x]. playing [BB12s, BB12u]. Please [BB13-29, BB13-30]. Pleasure [Bor02l, Bor02m, Bor05a, Bor16f]. Plouffe [BC96, Fin95]. Point [BB88a, BLT17, BBC+11b, Bor84a, BB91h, BLT15, BLT16, HD07]. Points [Bor77c, Bor84d, BB12-48, Bor83e, Bor86c, Bor88k, BF89b, Bor92k, Bor92l, Bor92m, BF93a, BBW95a, BBW97a, BKW02, BY12e, BY13c, BG15b, BG16b]. Poisson [BB13g, BBCZ13, BBKL16, BBKL17, TB00]. Pol [BB07c]. policy [BB09]. Political [BB10i]. politicians [BB12-51, BB12-52]. politics [BB12b, BB12-45, BB13u, Bor13c]. polyhedra [Bor00r, Bor01p, Bor01q, Bor01r, BBM01, BBM02]. polylogarithm [Ade12].
polylogarithmic [BBP97, Bor97m, GG07]. Polylogarithms
[BBBL98c, BBBL99, Bor96b, Bor97q, BBBL01, BS15b]. polynomial
[BH95]. Polynomials [BCM20, BBKL16, BBKL17, Diil20, HC09]. Pools
[BBLZ14m]. Poor [BB12-44, BBLZ14j]. Poor-quality [BB12-44]. Poorten
[BSZ13]. Popper [BBLZ14d]. Portfolio
[Bor09o, Bor12n, BBLZ13d, BBL16a, BBL16c]. Positive [DABY15].

Possible [Bor71, Bor07-32, Bor08n, Bor08o, BBxg]. Possibly [AI18].
postcards [Bor10o]. powers [BC07]. Pools [BBL14m]. Poor
[BBL12-44, BBLZ14j]. Poor-quality [BBL12-44]. Poorten
[BSZ13]. Popper [BBL14d]. Portfolio
[Bor09o, Bor12n, BBLZ13d, BBL16a, BBL16c]. Positive [DABY15].

Proceedings

Produced

Process

Produced

Program

Programmed

Programs

Progress

Projected

Proofs

Prophets

Public

Produce

Professor

Programs

Progressions

Projected

Proof

Proper

Prove

Proximal

Pseudo

Pseudo-mathematics

Pseudo-convex

Pseudorandom

Quadratic

psychology

Public

Pursue

QC

QCQP

QPQC

PSLQ

PSLQ

Public

Pursue

QC

QCQP

QPQC

Quadratic
quadratically [BB86c]. Quadrature
[BB06a, BB08d, Bor06j, Bor06k, Bor06m, Bor06n, BY06]. qualification
[BW79b, BW82a, BW82b, BW86]. quality [BB12-44]. Quantitative
[Ano15, BBLZ14p, Koh01]. Quantum [CC20a, Cvi10]. Quartically
[Bai88, Bai16b, TK97]. Quasi [BL92c]. quasiconvex [BBP03]. Quasidense
[Sim18]. quest [BBBP96, BBBP97, BBxxc]. question
[BB14z, BB14-27, MR11]. Questions [Bor03-34]. Quick [BB11x]. Quinn
[BBC09].

R [Bor11-38, Odl11, TSB13]. Rachford
[AB12, ABT13a, AB13, ABT13b, ABT13c, ABT14a, ABT14b, ABT15,
ABT16, AC18, BS10b, BS10c, BS10d, Bor10i, Bor10j, BS11b, Bor11r, Bor11s,
BT13a, BT13b, Bor13j, Bor13r, BT14c, Bor14f, Bor14g, BT15, Bor15g,
Bor15r, BG16a, BLS+16, BLS+17, BLS+18, BG18b, Gill18]. radicals
[BdB91]. radiometric [BB10g]. Radon [GLR18]. Rainfall
[Bor13k, BHP14, PHBH12, PHBH13, PHBH14]. Ramanujan
[BB96d, AB15, AAB12, AAB+88, BB97a, BB95b, BR01, Bor85b, Bor86f,
BB87a, Bor87g, Bor87f, BB87b, Bor87l, BB88d, BB88f, BB89a, Bor89f,
BB89, Bor90-29, Bor90-30, Bor90-31, Bor90-32, Bor90-33, Bor90-34,
Bor90-35, Bor90-36, Bor90-37, Bor90-38, Bor90-39, Bor91j, Bor91k, Bor91l,
Bor91m, Bor91o, Bor91p, Bor91q, Bor92e, Bor92f, Bor92i, BB93d,
Bor93m, BBG94c, BB96d, BB97c, BBB00b, BB01f, Bor03d, Bor03e, Bor03f,
Bor04-30, Bor04-29, BC04, BC04a, BBC04b, BL05, Bor05j,
Bor06i, BL08, Bor10x, Bor10z, Bor10-27, Bor11-29, BBGW11, Bor11-30,
Bor11-32, Bor12x, BB16, Bor16d, BB16u, Liu00, Bor08, BB91d].
Ramanujan-type [BB87a, BB88d, BL08]. Ramble
[Bor10-28, Bor10-29, Bor11-33]. Rand [BBC09]. Random
[BB13c, BNSW10, Bor10-28, Bor10-29, Bor11-33, BS13, CC20b, Gan14,
BB13b, BB13-40, BB95b, BB97a, BCW13, BCW13, BL05, Bor10e,
BSW11, BNSW11, Bor12b, BSWZ12, BR13a, BSV15, BS16, BS16a].
Randomness [BBBR16, BBBR17, Can17]. Range
[Bor04p, Bor05l, Bor05m, Bor05n, Bor05o, Bor05p, Bor06l, R+05, BW81c,
BFKL00, BFKL01, BFL02, Bor03x, Bor03y, Bor06-28]. Ranking
[BBSL17b, BBSL18, BBSL17a]. rapid [BBP97]. rapidly [AL10, BB83].
Rate [BLT17, BLY13, BLY14, BLT15, BLT16, HL15b]. rating [BB11w].
Ratio [Ade14a]. Rational [BZ87, BB87b, BZ92, BB98c, BB98d]. Reactions
[BB14q, BB14p]. Real
[ABB13, Bai91, BCF04, Bor13-28, Bor13-29, Bor90, BB13j, BFG87, BB90d,
BB91b, Bor04-30, Bor10z, Bor14x, Bor14y, Bor16q, Bor16r, Bor16s].
Real-Parameter [BCF04]. Realistic [BST13, BST15]. Reality
[Bor05-40, BB12u, BB12n, BB13p]. Really
[BB14i, BB11-28, BB14h, BBLZ14b]. rearrangement [BLZ99, BLZ01].
Reasoning [Bor93c, Bor93d, BBG03, Bor03z, Bor03-27, Bor03-28, Bor03-29,
BB04b, Bor04-27, Bor04w, Bor04x, Bor04y, Bor04z, Bor06-29, Bor10a, HF05,
Hoa05, Zei05]. Receive [BE16, Bai16a]. recipients [BB14e].
Reconstruction [Bor09-27, Bor92n, Bor93k, BLN94a, BLN95, BLLN95,
BLN96, LLC+95, MTCB98]. reconstructions [MTCB99]. Recurrence [BS08, BCM07b]. Recurrences [BB06a]. Recursion [BS07]. Recursions [BB06b]. Reduced [BB84a]. reduction [BW81d, Jal24]. Refined [BBFG00, BBFG01, War03]. Reflection [BST13, BT14b, BT14a, Bor15b, BT15, Bor15a]. Reflections [BB09c]. Reflexive [BV94b, BBWY11b, BBWY12b, Bor93a, BU94a, BTZ97, BE08, BV10a, Bor13g, Bor13h, Bor13i], reflexivity [BB90a]. refute [BB12w]. region [ZSZ16]. regional [JY12]. registration [HYG09]. Regular [Bor84d, BBM10, Bor86c]. regularity [BLL97c, BB98a, BB99b, BBL99, BB100, BZ88, BF94b, BZ95, BZ96, BL15, BL16]. Regularization [BL11, HLZ15b, ZL22]. regularizations [BB95a]. Regularized [WSL16, MTCB99, XWQ14]. Regularizing [BW81b]. Regulatory [BB15x]. Reich [Koh01]. Reinhart [BB13-31, BB13-32]. Related [Bor02b, BHL16b, BHL16a, BS84b, BB95f, BB01c, BS13, BHL17]. relating [BW95b, BW97b]. Relation [Bor99b, Bor09q, Bor10r, BL97, BL00b, BY12b, BY13b]. Relations [BB09j, Bor80b, Bor02a, BS15b, SV20, BY11b, Bor81b, Bor81d, Bor87a, BCM07b]. relationships [BL91b, BV93a, BV94c]. relative [BB09i, BB13i, BB13-34, BL92c, BG01, BG03a]. Relaxed [DLR20, RS02]. Reliability [BB13-32]. Reliable [BBSL20, BB10g, BB14x]. religious [BB90d]. Remark [Gill18, Osb05]. remarkable [BB11y, BB90b, BB01c]. Remarks [BG16c, BEO77, Bor81a, BG15c]. remembrance [Bai17e]. Remote [BLM+07, BM07b, Bor09w, Bor09x, BB12]. Renaissance [Bai21]. renorming [BF93d, BV95c, BV95d]. replace [BB16s]. replication [Gill17]. Reply [Gill17]. Report [BBC+14a, BBI7e, JWDS+14, BBLY14j, BBL+13]. reported [BB14x]. reporting [BB12f]. reports [Mic03]. representation [BMS97, BMS99a]. representations [BC98a, BC00]. Representative [EB08]. Reproducibility [BBL+13, BB16b, BBR16, BBR17, Gan17, JWDS+14, BB13-32, JWDS+14]. Reproducible [BB13-35, BB13-36, BBL+13, SBB13, BLL15b, BB13-30, Bor15m]. Res [Zil16]. Research [BB13s, Bor09b, Bor12n, Cam16, FR92, SBB13, B090d, BB10h, BB13b, BB13r, BLL15e, BB95t, BB95u, BB97x, BB07q, BB03d, BB13a, BB14a, BB16h, RZ15]. researchers [BB97]. Researching [Bor11g, Bor11-37]. Reseñas [Bou06]. Resolution [BC09]. Resources [Bor98]. Respect [Bor77c, Bor74]. Response [Ba12]. restoration [WM07]. Result [Mii89, BB11x, FK00, Mii90]. Results [AT13b, AT14b, BL93c, BLL14b, Bor94f, Bor96g, BB96b, Bor07-28, Bor07-29, Bor07-30, Bor07-31, BB14-32, CG18, AT13c, BB13a, BB13-42, BB14-3, BLL15b, BB95w, BB96b, BB96c, BB97d, BW97b, BK01, BB07-27, BB12j, BB12k, BY12d, BY14b, Hon85]. retires [Jac09]. retraction [Bor15c]. Retro [BM07a]. Retro-enhancement [BM07a]. Retrospective [Bor08s]. Reuben [BO11b]. Review [Abb00, Ask88, BAI91, BB09c, BLL14m, Ban10, Ber88, Bor90b, Bor92b, BB93g, BC96, Bor05g, Bor06o, Bor11-38, BS14a, Cas99, Cof15, HO05, Hoa05, How14, Lor90, Lor09, Odi11, Rob06, Saudi05, Wim88, Bai17d, BB191d, Bor09b, BO11b, BS14b, Tod03]. Reviews [Bou06, Zei05]. Reviews/Reseñas
[Bou06]. **Revisited** [BLM96, BLM97, Bor08s, AAB+88, BCM09, BY12f, KPS16]. **Revivals** [Bor96j]. **Revolution** [R+05]. **Richard** [BB12-38]. **Riemann** [BS17, BB96c, BBC98, BBC00b, BB05c, Bor07g, BBS15b, BBS20].

**Riemannian** [IP17, IP18].

**Risk** [Roc20, BB09i, BB11c, BB11p, Bor16f].

**Road** [CC20a].

**Robert** [BB91d, TSB13].

**Robust** [ANR18, CFG+18, DGI20].

**Rock** [BB12-38].

**Rocha** [Ban10].

**Rockafellar** [Ano15, Bor11-38, BBB+07].

**Rodrigues** [Ban10].

**Rogo** [BB13-31, BB13-32].

**Roland** [Sha05, Zei05].

**Role** [Bor02l, Bor05a, Bor16f].

**Rome** [BB09k, BB11z].

**Romney** [Bor12a].

**Roots** [BB12r, BB16d, BB11h, BR84, BS14a, BS14b].

**Rossi** [BB15u, BB16i].

**Rotund** [BGV02].

**Rotundity** [BL94b].

**Routes** [Ade11].

**Rule** [BY06, BM96a, BM98a].

**Rules** [CPRZ20, BB12-30, BBLZ14o, BM97d].

**Ryabova** [DP18].

S [Bou06, Tod03].

**S.** [Bor91p, Bor91q, Bor93m, Bor81a].

**Sad** [BB10j].

**saddle** [HD07].

**Salamin** [Borxx].

**Salt** [BF06a].

**Same** [BW95a, BB96a, BB09c, BW97a].

**Sample** [BBLZ14s, KJR16].

**Sampler** [BG15a, BG18a].

**Sandwich** [BC96].

**San** [BC96].

**Sandwich** [Bor80b, BT92, Bor98o, Bor81d].

**Sandwiched** [BF98, BF01].

**Sank** [Bor11-36, BBS12].

**Santaló** [BBFG00, BBFG01].

**Sapiens** [Thé16].

**Satire** [Bor07c].

**Say** [BB12-50].

**Scale** [JWDS+14, DF05, LW18, LW19, Ray97, WM07, XH08, ZSZ16].

**Scales** [PHBH13].

**Scaling** [WSdSY15].

**Scary** [BBLZ14n].

**Sceptics** [BB12d].

**Schaible** [Bor90b].

**Scheme** [BT13a, BT14c].

**Schemes** [BB98d, Bor06j, Bor06k].

**Scholars** [Mic03].

**School** [BB12k, BWB97].

**Science** [BB13-38, BB13-44, BB15l, BBBR16, BBR17, Bor95t, Bor95u, Gan17, PR92, RZ15, Sel16, SBB13, BB10i, BB10j, BB11i, BB12f, BB12-39, BB12-34, BB12-35, BB12-44, BB13n, BB13m, BB13w, BB13u, BB13-29, BB13-30, BB13-35, BB13-36, BB13-33, BB13-37, BB13-39, BB14o, BB14-29, BB15w, BBC+11b, Bor96k, Bor97x, Bor98r, Bor14a, Bor15c, Bor09c].

**Sciences** [Bor98e, Bor07o, Bor13m, Bor13n, SV14].

**Scientific** [BB13s, BB13-33, BB13-34, BB16s, Bor04i, BB09d, BB10c, BB11s, BB11f, BB12-28, BB12-30, BB13l, BB13r, BB15m].

**Scientist** [BB09h].

**Scientists** [BB12-45, BB12b, BB15q, BB16g, BB16h, BWB97].

**SCIHTBB** [XC11].

**Scissors** [Bor14v, Bor14w].

**Score** [BB12-45].

**Scores** [BB12o, BB13-27].

**Scribner** [BB91d].

**Search** [FN15, IP17, IP18, YW12].

**Searching** [BB96c, BB05c].

**Seasonal** [BHP14, Bor13q, PHB13, PHB14].

**SEC** [BBLZ14o].

**Second** [BN94, EB08, ABD03, Bor92g, Bor92h, Bor93f, Bor93g, BF93b].

**Second-order** [BF93b].

**Security** [BB15s, BBLZ15b].

**Seeing** [Bor12z, Bor13-28, Bor13-29, Bor13u, Bor13v, Bor13w, Bor13x, Bor13y, Bor13z, Bor13-27, Bor14x, Bor14y, Bor16q, Bor16r, Bor16s].

**Seeking** [BB15k, BB15j].

**Select** [BBGPxx].

**Selected** [BB12z, BB10l].

**Selection** [BB12-46, BB15s, BBLZ15b].
Self-contained [Gui17, Ara07, Ara08].

Self-replication [Gui17], sell [BB12e].

Semi-finite [Bor89i], Semi-infinite [Bor83f, Bor79a, Bor81c, Bor83c].

Semi-algebraic [CFG+18, BLY14].

Semigroups [Bor16j, Bor16k, BG15a, BG18a].

Seminar [BBLZ14p, BM07b, BJL+08, BBJ12].

Semiotic [BB09k, BB11z].

Semismooth [Las18].

Sensing [BL17a, BL17b, Bor09c, Bor10h, Bor11p, QYX14, XWQ14].

Sensitivity [BTZ97].

Separable [BM97f, BM00, Bor95a, Bor95b, Bor02d, Bor02e, BBL04, PD18].

disparably infinite [BK83].

disparably infinite [BK83].

disparably infinite [BK83].

September [Bai17a, BB+20, SBW84].

Sequence [BSxx, BL92a].

sequences [BL93a, Bor98d, Bor15d, BC96].

Sequential [BV94b, Bor93a].

Ser. [BZ02a].

Serious [Bor07c, BB13i].

Serving [Zei05, BBB03].

Session [AMM10, Bea13].

Set [BBS13a, BB13-35, BB13-36, Bor13-30, Bor15m, BZ88, BV95c, BV95d, Zho12, Bor92b].

set-valued [BZ88, Zho12, Bor92b].

Sets [BB14a, BB93b, BT84, Bor06u, Kru18, Moo18, RZ18, BCCR13, BB93a, BB94a, BBL94, BBL97a, BBL97b, Bor81a, BT85, BS86, Bor87m, BS87, BFK91, BL93a, BV94a, BF94b, BF95c, Bor95a, Bor95b, BV96a, BV96b, BM96b, BM98b, BLM99, BLM00, BV04, Bor07y, Bor08t, Bor12g, Bor12h, BLY13, BLY14].

Setting [BBL+13, Bor07z, Gll18, SBB13].

Several [Bor13-31].

Shafir [Koh01].

Shannon [BB95].

shape [SZ14].

Share [BW95a, BW97a].

Short [BM97b, Bor10-29, Bor11f, Bor11-34, Bor11-35, Bor11-33, Bor15o, Bor15p, Bor15q, SZ20, BSWZ11, BNSW11, Bor12b, BSWZ12, BS13, Bor14t, BS15, Bor15n, BS16, Bor16e].

show [BB13-27].

Shrum [Bor93a].

Shu [BB95e, IL09].

SIAM [Bor05g, BB08f, Bor09z].

Siegfried [Bor90b].

signal [Bor90e, Bor90f].

significance [BB14x].

Significance* [Alt20].

Silence [Sol15].

Silicon [Zei05].

Simon [BC96, BBJ97, Bor06a].

Simple [AW97, BW86, BLS+16, ZSZ16].

simplification [BBK14].

Simpsons [BB13z].

Simulate [BB13k].

simulated [PHBH12, PHBH13].

Simulation [BHP14, Bor13q, PHB13, PHB14].

Sinc [BB10, Bor11-36, BDS12, BB14-32, BB08, Bor00l, Bor01p, Bor01q, Bor01r, BMM01, BB01c, BMM02].

sine [BS11a, BBSW11, Bor11f, BS11d, BS11e, BS12b, BBSW12, BS13].

Single [Bor04-31, BZ88].

single-valued [BZ88].

Singly [CPRZ20].

singular [BB91d].

Sinh [BY06].

Six [BBJ12].

Size [BB88a, SI16, KJR16, LW18, LW19, LY21, XC11].

Skepticism [BB13-44, BB13-43].

skew [BR14b].

sky [BB93g, Tre13].

Slice
Slices [Bor04i, Bor04m, Bor06r]. Sloane [BC96]. Sloppy [BB13-33]. Small [BZ87, HMM20, BFK91, BZ92]. Smart [BB12i, BB12-46, BB13-37, BB13-38, Bor12-27]. SMC [Bor06]. Smell [BB13-40, BR13a]. Smoother [BC96]. Smoothing [HLY16, Li15]. Social [BB15s, Bor15c, BBLZ15b]. Socially [BB11i, BB12-34, BB12-35]. Society [BB16c, Ber88, BB11k, CW16]. Shtokman [Bao05g, Bor06o]. Software [Bai91, HY14, Bor08q]. Sokal [BB13d]. Solution [BB07b, BB07a, BB091, BB10k, BB12-47, BBS14a, Bor11-38, BB12-53, MR96, Zho12]. Solutions [AJB86, AI18, ANO93, AJ86, BB09m, BL87, BSW82, BSZ83, BB85, Bor85a, BN86, Bor93l, BB93c, Bor96j, BDT96, BBS97, BB99, BKL93, CJKB92, DAK88, DNG86, DBCB88, EWM86, GRM97, GC88, KJ86, KC89, KWK90a, KWK90b, KWK90c, LPBO1, Mon89, NJS88, NOL86, RSP93, RDF89, Sch85, SB87, SH87, SZUM86, Stub90, TB00, UVW92, BZ95, BZ96, Yak94]. solved [BB16o]. Solving [AC18, BB95c, BB96b, CPRZ20, AR13, AP16, Bor92k, Bor92l, Bor92m, LW18, LW19]. Some [BEO77, Bor81a, BSW82, Bor85b, BB93o, BBG94c, BB94b, BMS99b, Bor99y, Bor99z, Bor99-27, Bor00u, BK01, BB01c, Bor03-30, Bor07-27, Bor07-28, Bor07-29, Bor07-30, Bor08u, BNSW11, BY12d, BY14b, BG15c, BG16, Liu01, Lp02, TB80, BB95f, Bor96g, Bor96h, Bor96i, Bor05j, Bor06i, BB11-31, Gui08, Liu00]. sorry [BB13i]. SOS [CFG18]. SOS-Convex [CFG18]. Soul [BB15i, BB15h]. sound [BB12o]. Source [Abb00, BB03, Rob06, BB97b, BB00a, BB04a]. sourcebook [BB16l]. sources [Cam16]. South [HY14]. Space [BB12u, BB12n, BB16m, BB16n, BGM18, Bor78a, BM07d, Bor10c, Bor10d, Bor13e, Bor13f, WGD17, BB17, BBL94, BB95a, BBL97, BBWY11a, BBWY12a, Bor84b, BS86, BFG87, Bor87m, BS87, BG87, BZ94a, BF94b, Bor02d, Bor02e, BBL04, BM07c, Bor07x, Bor13g, Bor13h, Bor13i]. Spaces [BV94b, BFV94b, B195, BBS10, BBEM10, BCC00a, BBC01, BBWY11b, BBWY12b, Bor81a, BS89a, BF89b, Bor91d, Bor92g, BRS92, Bor92a, Bor93a, BL93b, Bor93f, Bor93g, BV94a, BFV94c, BV94d, Bor94h, Bor94i, Bor94j, BN94, BZ94b, Bor95a, Bor95b, Bor95c, BZ95, BV96a, BV96d, BI96, BZ96, BFV97, BV97, BJ97, BT97, BZ97, BJ98, BL99, BM99M, BM99N, BM99O, BV00b, BV01, BM01, BM02, BM03, BE08, BG09, BGV09, BV10a, BG15b, BG16b, La09, QR07]. Sparsity [XC11]. Spatio [CZX21]. Spatio-Temporal [CZX21]. Special [AMM10, AL1C17B, BC21, BBBL98c, BBBL99, BBFG00, BBBL01, Bor11-29, BS11d, BS11e, AAB12, Bor83c, Bor83f, BBFG01, Bor12t, BL16]. SPECT [BCNC99, BS95, BS97a, Bor02r, LLC19]. spectra [BMN98, BMN00]. Spectral [Bor87k, BT92, BN94N, CPRZ20, BTBT88, Bor90c, Bor90d, Bor91b, Bor91c, BRLZ99, BLZ99, BRLZ00, BLZ01]. spent
39
[Bor10-30]. Sphere [BB16o, BB14j, BKW02, CKM+ 16, Via16]. Spheres
[BLS+ 17, BLS+ 18, BLS+ 16]. spherical [AX20]. spin [BBCM07a]. Spline
[SBW84]. sports [BB13h]. Springer [Bor11-38, Tod03]. Square
[BB12r, BB16d, BB11h, BRxx]. Squares
[Bor01g, Bor02h, Bor02i, BC02, BC03, BC04b]. Srinivasa [BB96d, Bor12x].
St [IEE08]. Stability
[AI18, Bor84d, Bor86c, BM09, BM10, BW81a, BS95, BS97a, MTCB99].
stabilized [LY21]. Stable [DGLV20]. Stage [Bor07z]. Stan [Bor05g].
Standing [JWDS+ 14]. Starshape [BEO76, BEO77, Bor78c]. state [BB10j].
Static [BBSZ87, BBSZ88]. Statistical [Alt20, BSW82]. Statistically
[Gan14]. Statistics [BB09a, BB15l, BB09e, BB11f, BB15w]. staunch
[BW05b]. steepest [RS02]. Steiner [BO11b]. Step
[BB88a, BSW13, SI16, Bor10e, LW18, LW19, LY21, SD15, XC11]. step-size
[LY21]. Stephen [BB10e]. steplength [Pos13, Ray93, XSW12]. stepsize
[DABY15, MP18]. Still
[BB14c, Bor01e, Bor02s, Bor02t, BB13y, BB14w, BB14-28]. Stochastic
[BLN94b, SD15, HLZ14, HLY16, KJR16, LLS11, LZ14, Li15, LY21]. Stock
[BBL16a, BBL16c, BBLZ14i, BBLZ16a]. stocks [BBLZ13d]. Stoneham
[BB12-40]. Stop [Dev20, BB12f]. Story [Bor94f, Bor09z, Bor90o, Bor90p].
Strange [BB90c, BB92a]. Strategies [BBLZ13a, BBC98, BBC00b].
Strategy [dPB21]. STRAW [BB11v]. Street [BB97d]. strict
[BBC00a, BBC01]. strictly [BM95, Bor95d, NWY09, PD18]. Strogatz
[BBC09]. Strong [BBL97c, BBL99, BL94b, BBT98, BBT00, Bor80e, Bor12x].
strongly [Bor78b]. Structure [BY12e, BY13c, BB16b]. Students
[PL20, BWB97]. Studies [SV14, BWB97]. Study
[BBBR16, BBBR17, Ber88, BB87d, Bor05f, Bor11f, Bor11-27, Bor11-28,
Gan17, lL09, SBW84, Wim88, BB98b, Bor05g, Hd12]. Stuff [Bor00j, Bor00k].
Stupid [BB13-39]. Style [Bor11-29]. Subderivatives
[Bor88m, Bor88n, BMW95, BZ95, BZ96, BGW97, BMW97, BGW98].
Subdifferentiability [BW99, BW01, Fab89, BP87]. Subdifferential
[BW95a, Las18, BW97a, BM97e, BM97f, BZ98, BZ99c, BM00, BZ02a, BZ02b,
BS10a]. Subdifferentials [BFG03, BBEM10, BW98b, BMW99a, BMW99b,
BMW99c, BW00, BMW01, BVW01, BGV02, BW03, BVW03, BW05b].
Subgradient [BMS97, BMS99a, Bor09c, Bor10h, Bor11p]. Subgradients
[Bor84e, Bor82d, Bor82c, BFG87, Bor91a, BF94a, Bor94b, BF95a, BBW96].
Subject [CPRZ20]. Subspace [XH08, LL13]. Substance [DD15].
Substitutions [BCM20]. success [Cam16]. sufficiency [Bor76b]. sufficient
[Bor82b, BZ88]. suggest [Cam16]. Sum
[BB18, BY13a, BY14c, BB16a, BBB06b, BY12b, BY13b]. Summary
[BB06a, BC04b]. summation [BCM09]. Sums
[BB94b, BBP95, BG95b, Bor96f, Bor96g, Bor96h, BBK00a, Bor01g, BB05g,
Bor06-31, Bor12r, BGM+ 13, BBS20, BBG93a, BBG94a, BB13g, BBCZ13,
BBC14b, BB15a, BB16b, BBB08, BBT85, BBS89, BBG94b, BBG95c, Bor95e,
BBB96b, BBB96c, BG96b, BBB97d, Bor97f, Bor97m, BBP98, Bor98f,
BBK00b, BBK01, Bor02h, Bor02i, BC02, BC03, BC04b, Bor06-32, Bor07x,
BZB08, Bor12e, Bor12f, BBS13b, BBS14b, BBS15b, GG07]. sunlight


Super [BZ91, BZ93]. supercomputers [BBG95a]. superrelaxation [Pos13]. Supplement [BBB03]. support [BV94a, BV96a, BV96b]. supportability [Bor79g]. Supportless [BT84, BT85]. Supremacy [CC20a]. Surmise [DD15, Bor02g]. Surprise [Bor99q, Bor99r, Bor99s, BBM99, Bor00q, BBM00, Bor04v, Bor04-32, Bor05-32, Bor09-27, Bor13-32, Bor09n]. Surprising [BBB08]. Survey [BL93c, BV9x, Bor90a, Bor90-40, Bor90-41, Bor90-42, Bor90-43, Bor91r, Bor91s, Bor91t, Bor91u, Bor94l, Bor95s, BW95b, BV95c, BV95d, BW97b, BZ99c, BZ02a, BZ02b]. Surveys [SV14, BR01]. SVM [SD15]. Swedroe [Swe17]. Swiss [BBLZ15g]. Sylvester [Bor79f]. Symbolic [Ade11, Bor98h, Bor00t, Bor05-41, BH06, Bor09r, LLT18, BBK14, Bor97h, Bor98q]. Symbolically [BB96c, Bor97q, Bor97v, Bor97w, BB05c]. Symbols [Bor09t]. symmetric [DABY15, JD13]. Symmetry [Bor16z, BBS20, Bor13-34, Bor13-35, Bor13-33, BZ13]. Symposium [IEE08, CGM95]. symptom [BB13-28]. system [BB11w]. Systems [ANR18, BC18b, Bor84d, LY18, PR92, Bea13, Bor86c, Bor92n, Bor93b, Bor93k, BS95, BS97a, BR16, DABY15]. tails [BCP05, BC10]. tales [BBLZ13f]. Talk [Bor93n, Bor07v, Bor08l, Bor08m, Bor10u, Bor11x, Bor11y, Bor11z, Bor11-29, Bor16n, Bor16t, Bor89a]. Talking [BB12-48, Bor97r, Bor97s, Bor97t, Bor98b, Bor99-28, Bor10-30, Bor12-28]. talks [BB14e]. Tangency [Bor99w]. Tangent [BO76, Bor78c, Bor78a, AL10, BB84f]. Tangential [BS85]. Tanh [BY06]. Taylor [Nim15]. teach [BB10a, BBLZ13h]. Teacher [Goo20, Mic03]. teachers [BB12-49, BW97]. Teaching [AD20, Bor11g, Bor11-37]. Technical [Bor16t]. Technion [MR92]. Techniques [BZ05, Bor94n, BZ99a, BZ99b, GS02]. technological [BB12-44]. Technologies [J20, PL20]. Technology [Bor98e, Bor99e, Bor99d, BS99c, Bor00n, Bor07f, Sc16, BS99a]. Tegmark [BB14r]. Teleco [Bor10-30]. telelearning [Bor00w]. Telstra [Bor10-30]. Temporal [CZX21]. Ten [BBKW06, Bor05b, Bor09-30, Bor09-28, Bor09-31, Bor09-29, Bor09-27]. Tensor [CZX21]. tentative [BB12-34, BB12-35]. term [BBLZ14j, BBLZ14i]. Termination [HDL21]. Terms [BC18b]. ternary [Ade10]. Terry [An15]. Tertiary [Bor11g, Bor11-37]. test [BB12o, BB12-36, BB13-27, BB12j]. Testing [Alt20, BBLZ13a, BBLZ14r, BB13}. tests [BB11x]. Texas [BB13-29, BB13-30]. textbook [BB13-29, BB13-30]. Texts [Ber88]. th [BB84d, Cra12]. their [BBLZ15a, Bor88m, Bor89d, Bor95o, Bor95p, Bor14e, RZ15]. themselves [BB10a]. Theorem [BBWY11a, Bor80b, GN16, TB80, dPB21, Ara07, Ara08, BB13e, BBWY12a, BO11a, Bor79f, Bor80e, Bor81e, Bor81d, BZ86, Bor88g, Bor88h, Bor88i, Bor89c, Bor90m, Bor90n, BW98a, BD03, Bor14z, Bor16-27, Dev9x, Koh01, MW12, OBB+96, Rei02, BB13f, Bor79b, Bor13h]. théorème [Dev9x]. Theorems [Bor99-27, Bor00u, Bor12-30, Bor12-31, Bor14h, Bor14i, Bor14j, Bor14k,
Bor14l, Bor14m, Bor14n, Bor16-28, BB98a, BB99b, BS17, Bor77b, Bor79a, Bor81c, Bor85c, Bor87m, BT92, BG95a, Bor90o, BY13a, BY14c.

Theoretical [BaO12]. Theories [BB99g, BB99h]. Theory [AHLC +17a, AHLC +17b, BB15i, Ber88, BB87d, BZ02a, BM07d, Bor90d, Bor12c, BR12, BY12c, Bor12-30, BR13b, Bor16u, Bor16v, Bor16w, Bor16x, Bor16y, Bou06, DLR20, HMM20, SBW84, Tod03, Wim88, BBC10, BB13-42, BB13-47, BBC14b, BB15a, BB15b, BB94m, Bor95v, BB98b, BM07c, BY12e, BSZ13, BY13c, BY13d, Cvi10, CK04, BS86].

Théra [Bor17b]. there [BB15e, BB12-53, Bor14a]. Theta [Hir17, AB15, AAW06, Bor87l, HGB93, LL01, Liu00, XY12].

Theta-Function [Hir17]. Things [Bor13-28, Bor13-29, BB11f, Bor12z, Bor13u, Bor13v, Bor13w, Bor13y, Bor13z, Bor13-27, Bor14x, Bor14y, Bor16q, Bor16r, Bor16s, Bor16t, Bor16u, Bor16v, Bor16w, Bor16x, Bor16y, Bou06, DLR20, HMM20, SBW84, Tod03, Wim88, BBC10, BB13-42, BB13-47, BBC14b, BB15a, BB15h, Bor84a, BL92c, Bor94m, Bor95v, BB98b, BM07c, BY12e, BSZ13, BY13c, BY15, Cvi10, CK04, BS86].

Thinking [BaO12, BB12-52, BB93g, Bor94o]. Third [BBB03]. Thirty [BB05d, BB06c, Bor10-31]. Thirty-two [BB05d, BB06c]. Thompson [BHLC +17a, BHLC +17b, BB15i, Ber88, BB87d, BZ02a, BM07d, Bor90d, Bor12c, BR12, BY12c, Bor12-30, BR13b, Bor16u, Bor16v, Bor16w, Bor16x, Bor16y, Bou06, DLR20, HMM20, SBW84, Tod03, Wim88, BBC10, BB13-42, BB13-47, BBC14b, BB15a, BB15h, Bor84a, BL92c, Bor94m, Bor95v, BB98b, BM07c, BY12e, BSZ13, BY13c, BY15, Cvi10, CK04, BS86].

Time [WG17, BB17, PHBH13]. time-scales [PHBH13]. Three [Bor93p, Bor97v, Bor97w, Bor98q, Bor03-34, Bor07-31, BSW13, BW13e, BB93d]. Three-step [BSW13]. Thresholding [WSL16, XC11].

Tilting [BB14y]. Time [WG17, BB17, PHBH13]. time-scales [PHBH13]. times [BBLZ16c, Bor05b]. Timothy [Bor13-40, BR13a].

TMA [BZ02b], Tool [AD20, BBLZ14k, BWB97]. Tools [Bor00v, BMPR02, Bor05-42, Bor05-43, Bor06d, Bor11g, Bor11-37, MTB16, BB15b, BB15o, BS85+15a, AC98b, BC99, Bor05-45].

topics [BS84b]. Topological [BG16c, BG15c]. topology [Pea07]. Torneim [BB14b, BB15a, BB16a, BB16b, BB18, Bor12r, BB15, Bor12e, Bor12f, BD18, Dil21]. Total [Jal24]. tottering [BB13-40, BR13a]. Tough [BB11c].


Tutorial [BM97b, Bor92j]. twenty [BBx]. twenty-two [BBx]. Two-dimensional [AAW06]. Two-Point [BB88a]. Type [Ade14a, Ade14b, Bor01o, BML18, AL10, Ade10, Ade11, Ade12, Ade13, BB96a, BB99c, BBWY11e, BBWY11e, BBWY12c, BB87a, BB88d, Bor91h, Bor92d, BB93e, BB94a, BB94b, BV00b, BV01, BBG04b, BB05f, BE08, BL08, BEY11, BY12a, BY12f, BY13a,
BY14a, BY14c, Gui16, HLZ14, HL15a, Nim15, Wei15, ZS12, Zha13, ZZ14].


unpublished [BS15a]. Unbounded [RZ18]. Uncertain [DGLV20, BB12c].

Ultraproducts [BS15a]. Unbounded [RZ18]. Uncertain [DGLV20, BB12c].

uncovers [Can16]. Underdetermined [BL94a, BGL93]. Undergraduate

[BS99d, Bor00s, BS99b, BS00]. underscores [BLZ14]. Understand

[BB15a, BBLZ15b]. Understanding [WG17]. uneven [BB12-49].

Unexpected [BB16p]. Unholy [BB13-44, BB13-43]. unified [BB77a].

Uniform [BGM18, BH94a, BH94b, BC09, Bor10-29, Bor11-33, BV95b, BV96c, BSWZ11, BSWZ12, BSV15, BSV16]. Uniformly [BGHV09, BV12].

Union [Bor01n, Bor01m, Bor02a]. units [BLCW13]. Universe

[BB14-29, BS14b]. University [Bor99-27, BB93g, BBJC97, Bor06o, Bor09b, BO11b, BS1a4, IEE08, KG04, SBW84, BWB97].

Unknown [BB20b, BB20c]. Unleashed [AH01]. unlimited [ES01]. Unscientific

[BB09a]. Unsolvable [BB87c]. unsymmetric [DLL05]. untitled

[Bor89, Bor90-32, Bor12-29, Bor15s]. Update [BB15g, BB15f, SD15]. Upon

[BB14c, BB13y, BB14w]. Upper [CPR20, Las18]. Urbana [AAB88].

Urbana-Champaign [AAB88]. US$29.95 [BB11b]. US$57.00 [Bor05g].

USA [Bor05g, BB13-27]. uscos [BFK91, BK04]. Use

[BB12-30, Bor12-31, Bor00w]. used [BB10g]. useful [BB85b]. User

[BB06o]. uses [BWB97]. Using

[Bai88, BLNN94, BHP14, Bai16b, BFG87, Bor91h, Bor92d, BZ92, Bor94g, BNN94a, BNN95, Bor95m, Bor95n, BNN95, BNN96, BRS11, LY21, PHB14].

Utility [Roc20].
REFERENCES

[BBLZ16b, Bor02o, Bor04-33, Bor06-36]. Working
[Bor01a, Bor01b, Bor01c, Bor01d, Bor06e]. works
[BB12z, Bor07q, Bor07p, BR14b]. Workshop
[BBL+13, BBC+14a, BBJC97, IMR92, RZ15, BB14a]. Workspaces [Bor98].
World
[Bor03-35, BMP05, Fer91, BB12-41, BBB+96a]. Worrying [Dev20].
Would
[BB12-36], wreck [Bor15c]. writings [BB10]. wrong
[BB09f, BB13m, BB13-45, BB13-46]. WSN [LY21]. WWII [BB13t].

X [Bor05g, BB91d, Zei05]. xii [BB93g, BC96, Bou06, Odl11]. xii [Bor05g].
XSEDE [JWDS+14]. xue [BB95e, IL09, IL09]. xv [Ber88]. xvii [Coh15].
xxii [Bor06o, Bor09b].

year [BBLZ13d, BB15-28, BBxxc]. Years
[Bor02c, Bor02q, Bor07d, Bor09j, Bor09k, BB12, bVP21, BBLZ14i, BB15q,
BB15z, BB15y, BD95, Bor08r, Bor10m, Bor12j, Bor12k, Bor15l]. Yes
[BB12-53, BB13-33]. York [Ber88, BB91d, BB93g, Tod03]. Young
[Bor97g, Bor98g]. you're [BB13]. yourself [BB12-31]. yu [IL09].

Zagier [BBB96b, BB96c, BB97d, Bor97f]. Zahl [BB96d]. Zang [Bor90b].
Zeidler [Bor06o]. zero [BB11-27, BBY12, BBY14, BB15d]. ZETA [Bor97q,
BB96c, BBC98, BBK00a, BBC00b, Bor05x, Bor07g, Bor08k, Bor09m, Bor10y,
BZ11, BD16a, Dil21, BB15c, BB15, BS17, BBBL97, BBBL98a, BBBL98b,
BB98c, BB98d, BBK00b, BBK01, BB05c, Bor06h, BC10, BDT16, BD18]. Zeta-
Function [Bor08k, BS17]. Zhai [Coh15]. zheng [IL09]. Zoo [BV24].

References

Ramanathan, Robert A. Rankin, et al., editors. Ramanujan revisited:
proceedings of the centenary conference, University of Illi-
nois at Urbana-Champaign, June 1–5, 1987. Academic Press, New
1987.

[AAB12] Krishnaswami Alladi, George E. Andrews, and Jonathan M.
Borwein. Preface to Ramanujan’s 125th anniversary special is-
CODEN RAJOF9. ISSN 1382-4090 (print), 1572-9303 (elec-
s11139-012-9448-9.
REFERENCES


[ABBS12] Tewodros Amdeberhan, David Borwein, Jonathan M. Borwein, and Armin Straub. On formulas for $\pi$ experimen-


REFERENCES


Almkvist:1999:BBA


Arndt:2001:PU


AragonArtacho:2017:AMO


AragonArtacho:2017:SIA


Arutyunov:2018:SPN


Asic:1986:PSS

REFERENCES


Victor Adamchik and Stan Wagon. A simple formula for $\pi$. American Mathematical Monthly, 104(9):852–855, November 1997. CODEN AMMYAE. ISSN 0002-9890 (print), 1930-0972 (electronic). URL http://www.maa.org/pubs/monthly_nov97_toc.html. The authors employ Mathematica to extend earlier work of Bailey, Borwein, and Plouffe, [BBP97], done in 1995, but only just published, that discovered an amazing formula for $\pi$ as a power series in $16^{-k}$, enabling any base-16 digit of $\pi$ to be computed without knowledge of any prior digits. In this paper, Mathematica is used to find several simpler formulas having powers of $4^{-k}$. They also note that it has been proven that their methods cannot be used to exhibit similar formulas in powers of $10^{-k}$.


David H. Bailey. The computation of $\pi$ to 29,360,000 decimal digits using Borweins’ quartically convergent algorithm. Mathe-
REFERENCES


REFERENCES


J. M. Borwein and P. B. Borwein. Elliptic integrals and approximations to \( \pi \). Typescript, with 84-01 added by hand on cover page., January 1984.


REFERENCES


REFERENCES


REFERENCES


REFERENCES


**Borwein:1992:SSH**


**Borwein:1992:SOC**


**Bauschke:1993:CNA**


**Beer:1993:MSC**


**Borwein:1993:PSPb**


**Borwein:1993:CNT**

J. M. Borwein and P. B. Borwein. Class number three Ramanujan type series for $1/\pi$. *Journal of Computational and
REFERENCES


Computational complex analysis.

Borwein:1993:GFI


Borwein:1993:ICM


Borwein:1993:MMB


Bauschke:1994:DAP


Borwein:1994:STE

Bauschke:1995:CLM


Bauschke:1995:LFM


Bauschke:1995:PAS


Borowski:1995:DCD


Borowski:1995:SXC


Borwein:1995:IIS

David Borwein and Jonathan M. Borwein. On an intriguing integral and some series related to $\zeta(4)$. Proceedings of the American

[BB96a] Heinz H. Bauschke and Jonathan M. Borwein. Maximal monotonicity of dense type, local maximal monotonicity, and monotonicity of the conjugate are all the same for continuous linear operators. Report, Department of Combinatorics & Optimization, University of Waterloo, Waterloo, Ontario N2L 3G1, Canada, November 20, 1996. 23 pp. URL http://docserver.carma.newcastle.edu.au/180/. Published in [BB99c].


REFERENCES

Borwein:1997:AGMa


Borwein:1997:EDA


Borwein:1997:MMS


Bauschke:1998:COM


Borwein:1998:PAS


Borwein:1998:DRDa

REFERENCES


REFERENCES

Borwein:19xx:CFF


Borwein:19xx:MI

[BBxxb] J. M. Borwein and P. B. Borwein. On the mean iteration \((a, b) \leftarrow ((a + 3b)/4, (\sqrt{ab} + b)/2)\). Report, Department of Mathematics, Statistics and Computing Science, Dalhousie University, Halifax, NS B3H 3J5, Canada, 19xx. 39 pp.

Borwein:19xx:PCT


Bauschke:2000:JSC


Borwein:2000:AGM


Bailey:2001:EMR


Bauschke:2001:JSC

REFERENCES


REFERENCES


REFERENCES

Jonathan M. Borwein and John Ball. Access to the digitized literature. MSRI Workshop on Digitizing Mathematics, April 15–17, Berkeley, CA, USA., April 15, 2005.


REFERENCES


Six volumes (lix + 3150 pages).


[BB09h] David H. Bailey and Jonathan M. Borwein. Misuse of probability by ‘creation scientists’. Math Drudge, August 13,


REFERENCES


[BB10g] David H. Bailey and Jonathan M. Borwein. How reliable are the radiometric methods used for geologic ages. Math Drudge, May
REFERENCES


REFERENCES


REFERENCES


REFERENCES


References


REFERENCES


Condensed and revised version of [BB12-39].


REFERENCES


REFERENCES

Bailey:2012:DPR

Bailey:2012:ENP

Bailey:2012:EEC

Bailey:2012:EEM

Bailey:2012:FFP

Bailey:2012:GWD

Bailey:2012:HHC
Bailey:2012:HMD


Bailey:2012:HOEa


Bailey:2012:BCCa


Bailey:2012:BCCb


Bailey:2012:MSFa


Bailey:2012:MSFb


Bailey:2012:YMA


Bailey:2012:LMM

[BB12-37] David H. Bailey and Jonathan M. Borwein. Life on Mars!? Maybe we are all Martians. Math Drudge, December 3,
REFERENCES


[BB12-44] David H. Bailey and Jonathan M. Borwein. Poor-quality math and computer science courses threaten technological lead-


[Borwein:2012:YTN]


[Bailey:2013:APJ]


[Bailey:2013:DPRa]


[Bailey:2013:DPRb]


[Bailey:2013:BSF]


[Bailey:2013:CLFa]

Bailey:2013:CLFb


Bailey:2013:CLS


Bailey:2013:CSD


Bailey:2013:DYS


Bailey:2013:DDL


Bailey:2013:FWJ


Bailey:2013:FFE


[BB13t] David H. Bailey and Jonathan M. Borwein. The last Japanese WWII holdout: A lesson for creationists. Math Drudge, April 1,
REFERENCES


[Bailey:2013:MPS]


[Bailey:2013:MBP]


[Bailey:2013:MLW]


[Bailey:2013:NNP]


[Bailey:2013:PDU]


[Bailey:2013:PS]


[Bailey:2013:PIT]

David H. Bailey and Jonathan M. Borwein. PISA international test scores show Australia, Canada, UK, USA lagging. Math
REFERENCES

Drudge. December 6, 2013. URL https://experimentalmath.info/blog/2013/12/pisa-international-test-scores-show-australia-canada-uk-usa-


Bailey:2013:SDOa


Bailey:2013:SDOb


Bailey:2013:SMDa


Bailey:2013:SMDb


Bailey:2013:SSF


Bailey:2013:TTS


Bailey:2013:TBK


Bailey:2013:TBR

[BB13-42] David H. Bailey and Jonathan M. Borwein. Two breakthrough results in number theory. Math Drudge, May 24,
REFERENCES


REFERENCES


[BB14i] David H. Bailey and Jonathan M. Borwein. Dubious digits: Is this data really that accurate? Huffington Post. ??(??):??,
REFERENCES


Bailey:2014:LENb


Bailey:2014:MTO


Bailey:2014:NRP


Bailey:2014:OCEa


Bailey:2014:PDa


Bailey:2014:PDb


Bailey:2014:PDUb


Bailey:2014:SDJ

[BB14x] David H. Bailey and Jonathan M. Borwein. The significance of digits: just how reliable are reported numbers? *The Conversation,*
REFERENCES


REFERENCES


REFERENCES


REFERENCES

huffingtonpost.com/david-h-bailey/how-well-do-individuals-u_b_7664706.html.


REFERENCES


REFERENCES


[Bailey:2016:HCB] David H. Bailey and Jonathan M. Borwein. Are humans or computers better at mathematics? Blog posting, November 27, 2016. This article was co-authored with Jonathan M. Borwein before his death on 2 August 2016. A condensed version of this article appeared in [BB16s].


REFERENCES


REFERENCES


REFERENCES


REFERENCES


REFERENCES


REFERENCES


Borwein:1998:CAMb


Borwein:1998:SVM


Borwein:1999:SVM


Borwein:2001:SVM


Bailey:1996:QP


Bailey:1997:QP

David H. Bailey, Jonathan M. Borwein, Peter B. Borwein, and Simon Plouffe. The quest for pi. *The Mathematical Intelli-
REFERENCES


REFERENCES


[BB9x] David H. Bailey, Jonathan M. Borwein, and Richard E. Crandall. On the Khintchine constant. Report, Centre for Experimental and Constructive Mathematics (CECM) at Simon Fraser University (SFU), Burnaby, BC V5A 1S6, Canada, 199x. 19 pp. Published in [BB97a].


REFERENCES


REFERENCES


REFERENCES


REFERENCES


REFERENCES


[BBFG00] David Borwein, Jonathan Borwein, Greg Fee, and Roland Girgensohn. Refined convexity and special cases of the Blaschke–Santaló
REFERENCES


REFERENCES


REFERENCES


REFERENCES


[BBK00b] Jonathan Michael Borwein, David J. Broadhurst, and Joel Kamnitzer. Central binomial sums, multiple Clausen values, and zeta
values. Report, Department of Mathematics, Simon Fraser University, Burnaby, BC V5A 1S6, Canada, November 4, 2000. 17 pp. Published in [BBK01].


REFERENCES


REFERENCES


REFERENCES


[BBLZ14n] David H. Bailey, Jonathan M. Borwein, Marcos López de Prado, and Jim Zhu. The ‘scary chart’ fallacy. Mathematical Investor,


REFERENCES


REFERENCES


[BBM01] David Borwein, Jonathan M. Borwein, and Bernard A. Mares, Jr. Multi-variable sinc integrals and volumes of polyhedra. Re-
REFERENCES


REFERENCES


REFERENCES


REFERENCES


[BBSW11] David Borwein, Jonathan M. Borwein, Armin Straub, and James Wan. Log-sine evaluations of Mahler measures, II. *ArXiv e-


REFERENCES


REFERENCES


REFERENCES


REFERENCES


REFERENCES


REFERENCES


REFERENCES


REFERENCES


[Borwein:1986:LOC]


[Borwein:1989:LOC]


[Borwein:1995:MCF]


[Borwein:2003:BGT]


[Borwein:2009:CC1]

REFERENCES

1007/978-3-8274-2662-8. German translation by Roland Girgensohn of [BD09], with updates.


REFERENCES

Berndt:1988:BRJ


Borwein:2011:MOT


Borwein:1989:LBM


Borwein:1989:ENP


Borwein:1989:MCK


Borwein:1993:CFH

REFERENCES


<table>
<thead>
<tr>
<th>Reference</th>
<th>Details</th>
</tr>
</thead>
</table>
REFERENCES


REFERENCES

co.jp/online2/opjnca/vol12/p1.html. Special issue for Professor Ky Fan.


[BG95b] Jonathan M. Borwein and Roland Girgensohn. Evaluation of triple Euler sums. Report, Centre for Experimental and
REFERENCES


REFERENCES


REFERENCES

160


[BH94a] J. M. Borwein and W. Huang. Uniform convergence for moment problems with Fermi–Dirac type entropies. Report, Department of Mathematics & Statistics, Simon Fraser University, Burnaby,
REFERENCES


*Borwein:1994:UCMb*


*Borwein:1995:FHMa*


*Borwein:2006:SCM*


*Borwein:2009:SFC*


*Borwein:2019:CCM*


*Borwein:2016:GCLb*


REFERENCES


REFERENCES


REFERENCES


Borwein:1993:PFP

Borwein:1993:SCR

Borwein:1994:UMP

Borwein:1994:SRO

Borwein:1997:AIR
Jonathan M. Borwein and Petr Lisoněk. Applications of integer relation algorithms. Report, Centre for Experimental and Constructive Mathematics (CECM) at Simon Fraser University (SFU), Burnaby, BC V5A 1S6, Canada, November 18, 1997. URL http://docserver.carma.newcastle.edu.au/198. Published in [BL00b].

Borwein:1999:IAM

Borwein:2000:CAN
Jonathan M. Borwein and Adrian S. Lewis. *Convex Analysis and Nonlinear Optimization*. CMS Books in Mathematics/Ouvrages


REFERENCES


REFERENCES


REFERENCES


REFERENCES


[BM96b] Jonathan M. Borwein and Warren B. Moors. Null sets and essentially smooth Lipschitz functions. Report, Centre for Experimental...
REFERENCES

tal and Constructive Mathematics (CECM) at Simon Fraser University (SFU), Burnaby, BC V5A 1S6, Canada, June 4, 1996. 22 pp. URL http://docserver.carma.newcastle.edu.au/162/. Published in [BM98b].


REFERENCES


REFERENCES


REFERENCES


REFERENCES


REFERENCES


Borwein:1976:TCC


Borwein:1978:CCC


Bingham:2011:HKB


Borwein:2011:LHM


Borwein:1972:MON


Borwein:1974:ORP

REFERENCES


[Bor78a] J. Borwein. Weak tangent cones and optimization in a Banach space. *SIAM Journal on Control and Optimization*, 16(3):512–
REFERENCES


[Bor79e] J. M. Borwein. On convex decompositions. Accepted for publication in Nanta Mathematica, but the journal ceased publi-


Borwein:1980:SDT


Borwein:1981:SRP


Borwein:1981:CRO


Borwein:1981:DTS


Borwein:1981:LMT


Borwein:1981:LLC

REFERENCES


Borwein:1983:HSS


Borwein:1983:NFL


Borwein:1983:EPE


Borwein:1983:SIP


Borwein:1984:GLC


Borwein:1984:ICE

REFERENCES


Borwein:1987:SVPb


Borwein:1987:SVPc


Borwein:1987:SVPd


Borwein:1987:SA

Jonathan M. Borwein. Spectral analysis via convex programming. Charnes’ 70th birthday conference, IC2, University of Texas at Austin, Austin, TX, USA., October 15, 1987.

Borwein:1987:TIR


Borwein:1987:ELL


Borwein:1988:AGMa


Borwein:1988:AGMb


REFERENCES


REFERENCES


[Bor89g] Jonathan M. Borwein. Quadratic mean iterations. Carleton University/Université d’Ottawa joint Colloquium, Carleton University, Ottawa, ON, Canada., March 4, 1989.


Jonathan M. Borwein. Differentiability properties of convex, Lipschitz and semicontinuous functions. Ontario Math Meetings #88, Brock University, St. Catharines, ON, Canada., April 21, 1990.

Jonathan M. Borwein. Differentiability properties of convex, Lipschitz and semicontinuous functions. Ontario Math Meetings #88, Brock University, St. Catharines, ON, Canada., April 21, 1990.


Borwein:1990:ETSa

Borwein:1990:ETSb

Borwein:1990:GMSa

Borwein:1990:GMSb

Borwein:1990:HCPa

Borwein:1990:HCPb
Jonathan M. Borwein. The history of the computation of pi. APICS Lecture, St. Francis Xavier University, Antigonish, NS, Canada., March 24, 1990.

Borwein:1990:HCPc
Jonathan M. Borwein. The history of the computation of pi. APICS Lecture, Memorial University, St John’s, NL, Canada., March 31, 1990.

Borwein:1990:HCPd
Jonathan M. Borwein. The history of the computation of pi. APICS Lecture, Université de Moncton, Moncton, NB, Canada., April 5, 1990.

Borwein:1990:HCPe
REFERENCES


[Bor90w] Jonathan M. Borwein. The history of the computation of pi. APICS Lecture, Memorial University, St John’s, NL, Canada., March 31, 1990.

[Bor90x] Jonathan M. Borwein. The history of the computation of pi. APICS Lecture, Université de Moncton, Moncton, NB, Canada., April 5, 1990.


REFERENCES


REFERENCES


REFERENCES


[Bor91g] Jonathan M. Borwein. Discovering analytic objects by computer. Colloquium, Department of Mathematics, Guelph University, Guelph, ON, Canada., November 12, 1991.


[Bor91i] Jonathan M. Borwein. Euler, Mahler, Ramanujan and a little pi: Discovering analytic objects by computer. One of two invited talks at the Festkolloquium for Dr. A. Peyerimhoff ‘s 65th birthday, Ulm, Germany., April 25, 1991.


References


[Bor92n] Jonathan M. Borwein. On the failure of ‘maximum entropy’ reconstruction for Fredholm operators and other infinite dimensional

[Bor93a] J. M. Borwein. Asplund spaces are sequentially reflexive. Accepted for publication in the Canadian Journal of Mathematics, but withdrawn and merged with another paper. Jon Borwein recorded that as publication number 121, but because the article numbers changed with each update of his CV, that number has long been incorrect., 1993.


REFERENCES


REFERENCES


REFERENCES

[Bor94g] Jonathan M. Borwein. Maximization entropy methods (using derivative information) and infinite dimensional convex programming. XV International Mathematical Programming Symposium, Ann Arbor, MI, USA., August 18, 1994.


REFERENCES


REFERENCES


[Bor95m] Jonathan M. Borwein. Maximum entropy methods (using derivative information) and infinite dimensional convex programming.

[Bor95n] Jonathan M. Borwein. Maximum entropy methods (using derivative information) and infinite dimensional convex programming. Pure Mathematics Seminar, University of Western Australia, Crawley, WA 6009, Australia., August 1, 1995.


Borwein:1995:VSB


Borwein:1995:VDT


Borwein:1995:WEM


Borwein:1996:CAA


Borwein:1996:DMW


Borwein:1996:EMP


Borwein:1996:MPW


Borwein:1996:MMM

REFERENCES


REFERENCES


REFERENCES

[Bor97t] Jonathan M. Borwein. Talking about pi. Colloquium, School of Mathematical Sciences, Lakehead University, Thunder Bay, ON P7B 5E1, Canada., September 22, 1997.


[Bor97w] Jonathan M. Borwein. Three adventures: Symbolically discovered identities for $\zeta(4n + 3)$ and like matters. Joint CS/C&O Colloquium, University of Waterloo, Waterloo, ON, Canada., October 9, 1997.


[Bor98r] Jonathan M. Borwein. Virtual science: doing math on the web. Public lecture in conjunction with CMA National Symposium on
REFERENCES


[Bor99e] Jonathan M. Borwein. The doing of mathematics in the presence of technology. Canadian Mathematics Education Study Group (CMESG), First Plenary, Brock University, St. Catharines, ON, Canada, June 4–8., June 4, 1999.


REFERENCES


[Bor99m] Jonathan M. Borwein. Generic behaviour of generalized gradients. Special Session on Nonlinear Analysis, Canadian Mathematical Society Summer Meeting, Memorial University, St John’s, NL, Canada., May 29, 1999.


REFERENCES


[Bor00e] Jonathan M. Borwein. Experimental mathematics and exact computation. Colloquium, University of Western Australia, Crawley, WA 6009, Australia., April 19, 2000.


[Bor00g] Jonathan M. Borwein. Experimental mathematics and exact computation. Ernst Schrödinger Lecture, Schrödinger Institute, University of Vienna, Vienna, Austria., October 5, 2000.


REFERENCES


[Bor01c] Jonathan M. Borwein. Aesthetics for the working mathematician. Mathematics Colloquium, Macquarie University, Sydney, NSW,
REFERENCES


REFERENCES


Jonathan M. Borwein. The CEIC: The next four years. West Coast Optimization Fall Meeting, University of Washington, Seattle, WA, USA., November 2, 2002.


[Bor02o] Jonathan M. Borwein. Introduction to the work of the CEIC. Electronic Information Afternoon at the ICM, Beijing, August 20–27, 2002., August 26, 2002.
REFERENCES


REFERENCES


REFERENCES


REFERENCES


REFERENCES


REFERENCES

[Bor05b] Jonathan M. Borwein. (2 times) ten challenge problems. Third Clifford Lecture, Tulane University, New Orleans, LA, USA., April 1, 2005.


[Bor05d] Jonathan M. Borwein. Aarms. Presentation, Department of Math and Stats, Memorial University, St John’s, NL, Canada., November 17, 2005.


Borwein:2005:DSC


Borwein:2005:EMW

Jonathan M. Borwein. East meets West: Collaboration goes national. Delivered over the Access Grid to the opening of IRMACS at Simon Fraser University, Burnaby, BC, Canada., April 8, 2005.

Borwein:2005:EDLa


Borwein:2005:EDLb


Borwein:2005:EDLc


Borwein:2005:EDLd


Borwein:2005:EDLe


Borwein:2005:EMPb


Borwein:2005:EMPer

[Bor05s] Jonathan M. Borwein. The future is here? Presentation to National Educational Forum, Fields Institute, Toronto, ON M5T 3J1, Canada, May 6–8., May 6, 2005.


[Bor05u] Jonathan M. Borwein. High performance mathematics. Presentation to HPC@Dal, Dalhousie University, Halifax, NS, Canada., June 10, 2005.


[Bor05z] Jonathan M. Borwein. The life of pi. Colloquium: La Trobe University, Melbourne, VIC, Australia., October 4, 2005.


[Bor06g] Jonathan M. Borwein. Collaborative environments. Panel Discussion HPCS 06, Memorial University, St John’s, NL, Canada., May 17, 2006.


Jonathan M. Borwein. Four lectures on variational principles. II: Monotone operators as convex objects. Spring School on Analysis, Paseky, Czech Republic, April 25, 2006.


Jonathan M. Borwein. High performance mathematics and its management. IMA Hot Topics Workshop, The Evolution of Math-
REFERENCES


REFERENCES


REFERENCES


REFERENCES


[Bor07-27] Jonathan M. Borwein. Some convexity results a Jon or a Thompson might like. 65th Birthday Colloquium lecture for Jon Thompson, (Inter-Campus Seminar Day), University of New Brunswick, Moncton, NB, Canada., June 8, 2007.


REFERENCES


[Bor08h] Jonathan M. Borwein. Effective computation of Bessel functions. SIAM-AMS Special Session on Special Functions, Combined Membership Meetings, San Diego, CA, USA, Jan 6–9, 2008., January 6, 2008.
REFERENCES


REFERENCES


[Bor08r] Jonathan M. Borwein. The past 60 years in mathematics. Colloquium, Department of Mathematics, University of Auckland, Auckland, New Zealand., December 4, 2008.


REFERENCES

Borwein:2009:PCM


Borwein:2009:CSS


Borwein:2009:CCE


Borwein:2009:DAMa


Borwein:2009:DAMb


Borwein:2009:DAMc


Borwein:2009:EECa


Borwein:2009:EECb

[Bor09i] Jonathan M. Borwein. Exploratory experimentation and computation. Plenary lecture Fields–IRMACS Workshop on Discovery and Experiment in Number Theory, Simon Fraser Univer-
REFERENCES

Borwein:2009:FYM


Borwein:2009:FYMb


Borwein:2009:FVA


Borwein:2009:HIW


Borwein:2009:HMS


Borwein:2009:ICM


Borwein:2009:IRA


[Bor09s] Jonathan M. Borwein. Introduction to CARMA. Presentation to students from Dungog High School in CARMA., August 11, 2009.


REFERENCES


REFERENCES


REFERENCES


Borwein:2010:MEPc


Borwein:2010:MRGa


Borwein:2010:MZV


Borwein:2010:RACa


Borwein:2010:RACb


Borwein:2010:RWR


Borwein:2010:SWR


Borwein:2010:TTTT

Jonathan M. Borwein. Talking to Telstra: Two weeks spent with Australia’s largest Telco. Response to Australian Communications and Media Authority (ACMA) enquiry, Reconnecting the Customer, Sept 27, 2010., September 27, 2010.
REFERENCES


Jonathan M. Borwein. Actually: Teaching and researching at the tertiary level with collaboration tools. CARMA Colloquium., November 3, 2011.

Jonathan M. Borwein. Are pi’s days numbered? Interview with ABC Goldcoast, Australia., July 18, 2011.


Jonathan M. Borwein. CARMA and me. New Fellows Seminar, Australian Academy of Science, Shine Dome, Canberra, ACT, Australia., May 4, 2011.

Jonathan M. Borwein. CARMA and me: An introduction. CDSC-CARMA-CISRA (Canon Information Systems Research Australia) afternoon, CARMA., April 26, 2011.


Jonathan M. Borwein. CARMA and me: or why am i in Oz? JonFest 2011, IRMACS, Simon Fraser University, Burnaby, BC, Canada, 16–20 May., May 17, 2011.

Jonathan M. Borwein. CARMA and me: or why am i in Oz? Two presentations to 2011 Teachers’ Visit Day, University of Newcastle, NSW, Australia. July 8., June 30, 2011.

Jonathan M. Borwein. Chiropractic: crackers now, and crackers way back when. Math Drudge, December 23,


[Bor11u] Jonathan M. Borwein. Fractal geometry. Presentation to Year 7 students form Wallsend with Michael Rose to the NSW MEGS program (Making Educational Goals Sustainable)., February 16, 2011.

REFERENCES


REFERENCES


REFERENCES


[Bor12n] Jonathan M. Borwein. Interdisciplinarity, innovation, collaboration and creativity or how to manage a research portfolio. CARMA Colloquium., September 13, 2012.


REFERENCES

[134x692] REFERENCES


REFERENCES


Meeting, University of Sydney, Sydney, NSW, Australia., October 1, 2013.


[Bor14d] Jonathan M. Borwein. CARMA and me. Opening of CRM, University of Western Sydney, NSW, Australia., May 28, 2014.


[Bor14g] Jonathan M. Borwein. Douglas–Rachford methods for matrix completion problems. ANZIAM 2014, Federation University meet-
ing in honour of Vladimir Demyanov (given from Burnaby), April 16, 2014.


REFERENCES


REFERENCES


[Bor15t] Jonathan M. Borwein. Who we are and how we got that way? In Casazza et al. [CKR15], pages 140–156. ISBN 0-88385-585-2


REFERENCES


REFERENCES


[BRxx] J. M. Borwein and B. Richmond. When is a matrix a square? Research report 5, Department of Mathematics, Dalhousie University and Department of Combinatorics and Optimization, University of Waterloo, Halifax, NS, Canada and Waterloo, ON, Canada, 19xx. 22 pp.

REFERENCES


REFERENCES


[BRLZ99] Jonathan M. Borwein, John Read, Adrian S. Lewis, and Qiji Zhu. Convex spectral functions of compact operators. Report, Centre for Experimental and Constructive Mathematics (CECM) at Simon Fraser University (SFU), Burnaby, BC V5A 1S6, Canada, March 10, 1999. 27 pp. Published in [BRLZ00].


REFERENCES


REFERENCES


REFERENCES


REFERENCES


[BS11e] Jonathan M. Borwein and Armin Straub. Special values of generalized log-sine integrals. In Proceedings of the 36th In-


REFERENCES


Borwein:2015:CU


Borwein:2015:RNP


Borwein:2016:EAM


Borwein:2016:CFD


Belovas:2017:LTC


Borwein:2013:CLB

Jonathan M. Borwein, Matthew Skerritt, and Christopher Maitland. Computation of a lower bound to Giuga’s primality conjecture. Integers, 13(??):??, ???. 2013. CODEN INTEHN.
REFERENCES


REFERENCES


REFERENCES


REFERENCES


REFERENCES

(5):400–416, 2024. CODEN AMMYAE. ISSN 0002-9890 (print), 1930-0972 (electronic). See [BB92a].


REFERENCES

Research Report 14, Department of Mathematics, Dalhousie University, Halifax, NS, Canada, June 1979. 59 pp.


REFERENCES


REFERENCES


[BY14b] Jonathan M. Borwein and Liangjin Yao. Some results on the convexity of the closure of the domain of a maximally monotone


REFERENCES


S0362546X98001424. Dedicated to Francis Clarke on the occasion of his fiftieth birthday and the twenty-fifth birthday of the Clarke generalized gradient. See addendum [BZ02a].


REFERENCES


Cotrina:2018:EPE


Cohen:1995:AAA


Chamberland:2003:BBF


Chapman:2016:LEJ


Cook:1992:PSS


Cohn:2016:SPP


REFERENCES


Deutsch:1986:PSE


Daniilidis:2018:PAD


dePrado:2021:FST


Dolgov:2020:PCI


Eberhard:2008:SOC


Engquist:2001:MUB


Reinhard E. Ganz. The decimal expansion of $\pi$ is not statistically random. *Experimental Mathematics*, 23(2):99–104, 2014. CODEN ???? ISSN 1058-6458 (print), 1944-950X (electronic). See the reproduction of results, and reanalysis, in [BBBR16], that reveals a flaw in the statistical analysis in this paper: Ganz used only a single blocksize in sampling digits, and that blocksize produces anomalous statistics.


Boris Gourévitch and Jesús Guillera Goyanes. Construction of binomial sums for $\pi$ and polylogarithmic constants inspired

**Giladi:2018:RCD**


**Garcia-Lirola:2018:MRN**


**Galicki:2016:CAB**


**Goos:2020:CBF**


**Galvin:1997:PSP**


Hanna:2012:PPM


Higham:2015:PCA


Huang:2021:EBB


Hersh:2005:BRM


Hirshorn:1993:CAJ


Hirshorn:2017:CTF

REFERENCES


REFERENCES


James:2014:STR


Jiang:2012:BBB


Kennedy:2015:CAM


Kimberling:1989:PSS


Kisilevsky:2004:NTP

REFERENCES


REFERENCES

Knuth:1990:PSSb


Knuth:1990:PSSc


LaCruz:2009:EBB


Lassonde:2018:USF


Li:2015:SNB


Liu:2000:BCT


Liu:2001:SES

[Liu01] Zhi-Guo Liu. Some Eisenstein series identities associated with the Borwein functions. In Symbolic computation, number theory, spe-
REFERENCES


341


Nosratipour:2017:ANG


Nosratipour:2017:OCV


Nimbran:2015:TSA


Nicolaescu:1988:PSSb


Novinger:1986:PSS


Narushima:2009:EBB


Narushima:2010:EBB

Yasushi Narushima, Takahiko Wakamatsu, and Hiroshi Yabe. Extended Barzilai–Borwein method for unconstrained minimization


Pianadosi:2013:MSS


Pianadosi:2014:MSS


Pianadosi:2012:MEM


Pianadosi:2013:GSR


Phillips:2020:MEI


Pospisil:2013:OAB


Pilehrood:2011:ABB

REFERENCES


Phillips:1992:SMS


Petrov:2014:BBM


Platt:2020:IBB


Qiu:2007:LCL


Qiu:2014:NAB


Rowe:2005:EDC


Raydan:1993:BBC

<table>
<thead>
<tr>
<th>REFERENCES</th>
<th></th>
</tr>
</thead>
</table>


REFERENCES


REFERENCES

Shallit:2005:BRM


Shareef:2016:NCG


Simons:2018:QMM


Sole:1995:A


Solomon:2015:DS


Sturm:1990:PSE


Sidoli:2014:ATB


Skerritt:2020:EPA


Stoica:2021:ICC


Swedroe:2017:SGF


Schaible:1981:CCP


Sendov:2014:SBA


Straub:2020:SWA

REFERENCES

3-030-36568-9 (e-book). ISSN 2194-1009 (print), 2194-1017 (electronic). LCCN ????


REFERENCES


REFERENCES

Yang:1994:EBP


Yongxin:2000:GEV


Yuan:2012:BBG


Zaharescu:2006:BCA


Zalinescu:1986:LEJ


Zeilberger:2005:SSM

REFERENCES


Zhao:2010:CBB


Zhong:2013:NFB


Zhou:2012:EBP


Zhuan:1991:BCC


Zhang:2022:BBR

Zhang:2012:BTF


Zhang:2010:NFB


Zhou:2016:NSM


Zhang:2014:NFB