A Complete Bibliography of the *International Journal of Number Theory*

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24 June 2022
Version 1.03

Title word cross-reference

$(2, 2, 2)$ [AZTM15]. $(2am - 1)^x + (2m)^y = (2am + 1)^z$ [MT12]. $(3, 3)$ [ATT+16]. $(9, 3)$ [AITA19]. $(A.2)$ [WY20]. $(\mathrm{mod} r)$ [HL11]. $(\ell \neq p)$ [Pal14]. (k, l) [Baj09]. $(n - 1, 1)$ [RZ22]. (ϕ, Γ) [Ber11]. $(q^b, q^p - b; q^p)_\infty^3 (q^{jb}, q^{2p-jb}; q^{2p})_\infty$ [MZ22]. $(w + x + y + z)(1/w + 1/x + 1/y + 1/z) = n$ [BX18]. $(x - d)^4 + x^4 + (x + d)^4 = y^n$ [Zha17d]. $(x_1 + \cdots + x_n)^2 = ax_1 \cdots x_n$ [Bao08]. -23 [GY13]. 0 [Gri11, Kaa11]. 1 [AK14, Ala14, AK15b, AK17, CWR16, Dub14, Fu11, HM06, Li14, Mem20a, Mor08, RSS18, SS10, Tou09]. 1/2 [Kan22]. $1/a + 1/b + 1/c + 1/d = 1$ [BU11a]. $1/\pi$ [Gui21, Liu12b]. $1/\pi^k$ [Gui20]. 10 [PSY18]. 11 [AB15b, Ber07, Jam12, JZ17, Pen19]. 12 [KE17, FY17, PSY18]. 13 [JZ17]. 14 [NV10]. 16 [GJS14, SS10, Xio16]. 2 [AK14, AAA15, AK17, AZTM15, ARTZ19, Bro10a, CV17, CK20, Cop20, Cre18, CG19b, GK18a, Gla09, HZZ12, INST14, Ito18, KM12b, Kum13, LW19, LR19b, LL11, Liu13b, Mat08, Mem17, MY21, Mol12, OLG19, OT05, PSY17, QH19, RSS18, RT17, RSW14, Roz18, Sch12, SW06, Tay17, Ula19, ZH16a]. 23 [BD15a]. 24 [UW14]. 27/64 [CC21a]. $2\mathbf{Z}$ [Tsu15]. $2x^2 + 3y^2 + 6z^2 + 6t^2$ [AW12]. 3 [AK14, Ala14, AK15b, AK17, AITA19, Awt12, CM16, DL20, FN14, Gol16, JZ17, Li14, Lin13b, MM13a, Mor16, Pac19, RSS18, Roe14, Wan16, XY14]. 32 [GJS14, SS10]. 4 [Dai14, Gir16a, HR11, HJ14, JO20, Lin14,

RSS18]. $4\mathbf{Z}$ [Tsu15]. $4n^2p = x^2 + qy^2$ [Sun15b]. 5 [AB15b, Ber07, CGM15, Han17, JZ17, LMW16, Mat19, NH17, RS11, Sak14]. 5(mod24) [KK12]. **$520** [RS13d]. 5^A [Rob11]. $5x^2$ [KK15]. 6 [AK14, AK17, Hua17, RSS18]. 7 [AB15b, BS12, BD15a, Ber07, Dai16b, Jam12, Lin14, Mah19, RS11, Sak14]. 8 [BCH08, JO20, Mil18, PSY18, XY11]. 9 [Ala14, AK15b, BS12, DW16, Par18b, She17, XY14, Yao15]. ${}_1\psi_1$ [Vil18b]. ${}_2\psi_2$ [BSM16]. ${}_3F_2$ [McC10, WW18]. ${}_3F_2(1)$ [Tau18]. $_m$ [GR14]. $_p$ [Hyo15]. a [Kim16b]. $A^4 + 2^\delta B^2 = C^n$ [BEN10]. A_0 [Val14]. A_4 [RS14b]. $ax^2 + by^2 + cz^2 + dxy = 0$ [LR19a]. $ax^y + by^z + cz^x = 0$ [ZY12]. B [BD21, CDHS15, DE21]. $\bar{a} + \bar{b} \equiv \bar{c} \bmod p$ [Cha21]. $\bar{\mathbf{Q}}^*$ [Pot21]. β [LLZ18, TYZ16, ZLL16]. $\beta_n = \sum_{k=0}^{n} \binom{n}{k}^2 \binom{n+k}{k}$ [CMS20]. $\binom{3k}{k}$ [Sun16a]. $\binom{n-i-1}{i-1}$ [She07]. mod [Kön20, Tsu15]. mod3 [Lin13b]. mod4 [IIO20]. mod$\mathbf{Z}$ [Gir14b]. mod$n$ [SC16]. mod$p$ [AM09, Amo21, BP11, Nţ21, Álv14]. c [BB21b]. $C_2^r \oplus C_n$ [FZ16]. $C_p \oplus C_{p^n}$ [QH17]. χ [Edd16]. $\chi(2) = 1$ [Edd16]. Co_2 [KRLT20]. D [HK18, AsMS20, Baš12]. $d(n!)/m!$ [BFLT10]. $D_1x^2 - D_2y^2 = \lambda k^z$ [YF15]. D_m^+ [KM06]. Δ [Bai16]. $\Delta(x)$ [Li17, ZZ11]. Δx [TZ09]. e [Has13b]. $E(\mathbf{Q})_{\mathrm{tor}} \cong \mathbf{Z}/3\mathbf{Z}$ [BKY19]. $E(x)$ [TZ09]. ℓ [JZ17, Pen08]. $E\mathbf{Q}_{tor} \cong \mathbf{Z}/2\mathbf{Z} \oplus \mathbf{Z}/2\mathbf{Z}, \mathbf{Z}/2\mathbf{Z} \oplus \mathbf{Z}/4\mathbf{Z}$ [BKY20]. $\epsilon(k) = c(k+1)$ [ZMS15]. $\epsilon(k_n) = ck_n^\tau + ck_n^{\tau-1}$ [TZ17]. η [CC16]. $f(n)$ [GV13]. $f(x)$ [GV13]. $f(x)x^n + g(x)$ [DFV13]. $F_n = P(x)$ [TU20]. $F_n \pm p^a$ [Šiu16]. $F_p = u^2 + pv^2$ [GBL15]. $\frac{520}{\pi}$ [RS13d]. $\frac{L'}{L}(1, \chi_D)$ [MM13b]. $\frac{\mathbf{F}_p[x]}{\langle f(x) \rangle}$ [WZWQ16]. G [Kön20, Nat11, ST19]. $\mathrm{Gal}(\mathrm{k}_3^{(2)}|\mathrm{k})$ [ATT+16]. $\mathrm{Gal}(\mathrm{Q_p}/\mathbf{Q}_\mathrm{p})$ [Roz18]. Γ [BS10a, Bar13a]. $\Gamma^3 \setminus \mathcal{H}$ [SS07a]. $\Gamma^*(10, p)$ [VR20]. $\Gamma_0(2)$ [Got20, HY18]. $\Gamma_0(4)$ [Moo19]. $\Gamma_0(N)$ [Gil17]. $\Gamma_0(p)$ [Coo09]. $\Gamma_0(pN)$ [BP11]. $\Gamma_1(q)$ [Dja11]. $\Gamma_1(t)$ [BV18]. $\Gamma \setminus \mathcal{H}$ [SS07b]. gcd [Abo08, KE18]. GL(2) [Ass21, JK21]. GL(3) [Agg21]. GL(3) $\times$ GL(2) [Str22]. GL(n) [Wal21]. h [BC18, ST19]. i [She07]. j [Sha14, XLD22]. $j(z)$ [DM13]. K [Kit13, BK11, BL13, CG13, DL20, FGT15, HLT20, Hu13a, Kei13, Kei21, lLW21, Liu09, xMgC22, MW16, Mol12, MS21, QGX22, RS13a, RB18, Rib11, RL18, SD20, Tre15b]. $K3$ [Ito18, Tre15a]. $k = \mathbf{Q}(\sqrt{-3}, \sqrt{d})$ [ATT+16]. L [Aga10, Agg21, And12, Ass21, AMPS17, Aym22, BT18b, Bou11, Bro10b, Bru18, BM11, Bui12, Bui13, CY18, Cho13a, CK17, Dah18, DM19, Dja11, Dja13, ĐLV20, Dum09, FW10, FRcT20, FG22, FJ20, GK13, Gil13, GY16, HRL11, Hah21, HM16, Hay14, Hou21, Hun18, KP14, KMT11, Kug22, Lan19, Lei12, LLZ16, LZ14, MNZ19, MN13, MU18, MSV18, Mis16, MY13, Mui12, NMZJ22, OS17, OO17, PT14, łPS13, Pat19a, Pat10, Pey20, Pi20, RGHK20, San09, Sas15, SSS22, Str22, SY19b, Suz05, Tam14, Tan12, TX16, Tem10, Van12b, Van16a, Yam15, You12, BARCVS13, HS21a, She16, Wit07, ZH16c]. $L(1, \chi)$ [Jun14]. Λ [She14, BS10a, Bar13a, Kum21]. $\mathrm{lcm(a, b, c)} = 7, 8$ [Par18b]. $\mathrm{lcm(a_1, a_2, a_3, a_4)} \leq 4$ [LP17]. $\ln(1 + x^n)$ [AKMR12]. log [Kas19]. m [MS16b, Toh08]. $M(2, K)$ [Tu11]. $m^2 + n^2x + 2mn^y = m + n^{2z}$ [hY20]. $\mathbf{A}^n$ [AS09]. $\mathbf{F}_1$ [LLM18]. $\mathbf{F}_p[x]$ [Tho13]. $\mathbf{F}_q$ [BK13, Tür11]. $\mathbf{F}_q(t)$ [She22]. $\mathbf{F}_q[T]$ [AC15, Yam16, RGHK20]. $\mathbf{F}_q[x]$ [WHZ19]. $\mathbf{F}_\zeta$ [LM15b]. $\mathbf{P}^1$ [GL19, GG22]. $\mathbf{P}^1 - \{0, 1, \infty\}$ [Tan18]. $\mathbf{P}^1_{\mathbf{Q}}$ [Haj15]. $\mathbf{Q}$ [BCF16, BCF21, BF19, FK11, PZ18, Par11, SG17, Kit13]. $\mathbf{Q}(\sqrt{-4pq})$ [Mil18]. $\mathbf{Q}(\sqrt{-8pq})$ [Mil18]. $\mathbf{Q}(\sqrt{-p})$ [XLD22]. $\mathbf{Q}(\sqrt{8pq})$ [Mil18]. $\mathbf{Q}(\sqrt[3]{d}, \zeta_3)$ [AITA19]. $\mathbf{Q}(\sqrt{pq})$ [Kum21]. $\mathbf{Q}(\sqrt{pq}, \sqrt{2 + \sqrt{2}})$ [Kum21]. $\mathbf{Q}_p$ [BP15b]. $\mathbf{R}_{\mathrm{an,exp}}$ [JQ21]. $\mathbf{Z}$ [BGW12, Ot20, Shl12, Tsu15]. $\mathbf{Z}/2\mathbf{Z} \oplus \mathbf{Z}/6\mathbf{Z}$

Hea14, Ivi05, Kaa11, KW12, Kow06, Lau13, LZ12, Li09, Lin13b, LS09a, Liu12c, Pap11, Rho09, Rod14, Roy07, RSW14, Tam14, Tan09, Wan12, Xio11, ZLZ10, AK15a, AD18, Bae19, BS20, BARCVS13, BH14, BK16, BCSX20, BJMV14, CC16, CHJL21, Che14, Cho20a, CH15, DK21, ĐLV20, FY13, FG22, GM18b, Gar08, GC17, Ham16, Ham18, Har18, HSW14, Hum14, Ivi16, JLSW15, JKK16, JM10, KW16, KMS21, Kar19, KT15, Kim21a, KTZ16, KTZ18, Kua15, LLMA16, Li15, lLW21, Li22, LLZ16, MCW19, MR15, MP15, Mer11a, Mor16, MP21, NH20, Ngu19, Nic06, O'S16, OS17, Ono21, Pal14, Pat19b, Pum20, RS11]. **function** [Ros17, SS19, Shi16, Suz17, Tou09, TT18b, Tsu18, Vil18a, Wan17, Wit07, Xio16, You12, ZH16c, ZMS15, Zue18]. **Functional** [EH08, KMT11, Ngu11, Pal14, Suz05, BZ15, Hei18, JP14, Phi11]. **Functions** [Ada12, AJKM09, AZZ05, And13, And12, BB09b, BST10, Bou11, BM11, Bui12, Bui13, CLN05, Cho13a, CZ10, Dja13, Dum09, El 11, FW10, Gil13, GML12, HRL11, Har07, Has10, HN10, HN11, Hub11a, KP14, Kad12, Kat10, Kim10a, KM05, Koc08, KMT11, LZ11, LW13, MN13, Min12, MY13, Mui12, MS09b, OT05, Ono08, łPS13, Pat10, Pil09, Pol14b, Sch10, SZZ13, Suz05, Tam14, Tan12, Tem10, TT09, Veg11, ZW14b, Zor13, AB19, Agg21, AD16a, Alo19, Ass21, Aym22, BG15a, ES20, BG15b, BB18b, BB20b, BD22, BB14a, BK15a, BT18b, Bor18, Bro10b, BS19, BS17, Bur21, CGG15, Cha20, Che18a, CY18, Che18c, CK17, CP18b, CG13, CGH18, Dah18, Dau14, Def15, DE21, DM19, DK21, Dja11, ĐLV20, Ell15, Eve22, Fol21, FT18, FJ20, GY16]. **functions** [Goo17, Gug21, Hah21, Haj20, HM16, Hau18, HLN19, HK14, Hir22, HL11, Hou21, HSZ20, HHM21, Hun18, Jia20, wJShY21, JL17b, JQ21, yK21, Kas19, KP16, KS16, KE18, Lan19, Lei12, LM15a, LS19, LW20, LY09, LZ14, Lou15, MNZ19, Mad12, MU18, MP22a, MSV18, Mem17, Mem20a, Mem20b, Mér20, Miy15, MV14b, Mur15, NMZJ22, OS11, OO17, Par18a, Par20, Pat19a, PsR21, Pen08, Pey20, Pi20, PT15, Rei21, RGHK20, SS14, Sah16, San09, Sch18a, SS21, Sch15, Sed15, SR19, SST19, SY17, SSS22, Str22, Sun16c, SY19b, Sun19b, TX16, Toh08, Vää15, Van21a, Van12b, Van16a, Yan19, You16b, You17, ZL18b, dS18a]. **Fundamental** [AM17, LL17, AK15c, Rau16, Sar22]. **Further** [MZ22, SY19b, Zha22a, Guo21, Sun17c, ZS20].

Galois [Amo21, Amo18, AD16b, Bar14, Ber18, Bru05, Buc11, Car11a, CKW13, hC21, Cop20, CR18, DR16, DD09, Dor20, EJ11, EJ19, Fra21, GNS06, GM18a, GG22, Gir22, GP12, Hin18, IIO20, JM11, Klü12, KRS18, Lim16, Nţ21, Pan11, PRVS08, Ray21, Ray22, Ric13, Sal09, SS15b, SS10, Sha17, SST19, Tay17, Van18]. **Galois-invariant** [EJ19]. **galoisienne** [Ric13, Sod21]. **galoisiennes** [Tay17]. **Game** [NQ08]. **Gamma** [Kat10, Kas19, Zha17c]. **Gap** [PSZ16, HR21]. **Gaps** [Alk07, GL11, AB19, Ben15, FGT15, KK18]. **Garvan** [Pat15]. **Garza** [Höh11]. **Gauss** [ASV10, Aka14, ASD16, BBCZ05, CD11, Gur11, Has10, LS17a, Liu12b, Moh19, NMZJ22, Van07, ZCX22]. **Gaussian** [BK12, BK13, Kal18, KP16, KL09, McC12, MM11, MV14a, Sad16, SZZ13]. **gcd** [CG22, HLT20, Zhu22, Zhu22]. **gcd-closed** [Zhu22]. **General** [ACH05, BW21, CH09, KTT06, MS05, Hou21, Ros18]. **generalised** [Bal19]. **Generalization** [BTW06, Fu11, Kuo09, LS09a, RD13, Rol11, Yan13, BDTT16, BO19, Isa21, Kob16, LHK18, Mur15, Qua19, ST18, Tan14, YF18, ZC17a]. **Generalizations** [Bao15, OEL13, Sch14, Tót13, Zha22b, Mis17, SY19a, Zha22a]. **Generalized** [BCDY15, Che17, Cho18a, CCRT14, Dil20, ELY05, FG12, HRL11, Kat10, KK15, KL12,

[BL15]. **Hausdorff** [BLW21, NSS15, TLZ22]. **hauteur** [Hua17, Mig15]. **Having** [IFD08, CGG15]. **Hecke** [AJKM09, Amo21, And13, Bao19, BB14b, Bro10a, CEP12, CW07, CL22, Dau14, DD09, FW21, GK18a, GJS14, Ghi11, GS17, Hei18, Hyo15, IKS07, JV21, Kim22a, OO17, Pat20, Pen19, Pey20, Res09, Sah11, STW10, TT18a, Ter13, Val14, Wal06, Wal08, Wal17a, Wal17b, WC19, Wie09, ZS20, Zha22a]. **Hecke-Type** [And13, GJS14, ZS20, Zha22a]. **Heegner** [AAD11, Liu12a, Mat18]. **Height** [LW13, Pon06, SS07a, SS07b, Thu08, Via10, CF22, ELO16, Hol19, Hua17, KT15, Mig15, MS18b, VY13, Wan15b]. **Heights** [Abo08, BM12, Nat09, San18b]. **Heilbronn** [Won17]. **Heini** [Ano15b]. **Heisenberg** [Hyo15, Van16b]. **Hensley** [Wan12]. **Hermite** [Bac08, Mue12]. **Hermitian** [HK14, Hir22, Vul10b, Vul10c]. **heuristic** [MP16a, MP16b]. **heuristics** [RS14b]. **hexad** [EJ19]. **Hida** [JP14, LV12, Ray22]. **Hida-families** [Ray22]. **high** [BJ19, Bae19, MT17, Shp19, Ska17b, Ska19]. **Higher** [Cha05, HR21, Ula10, Wal13, Ade18, Ade21, Cas12, Cho18b, Cob21, CWR16, Dic21, Hol19, Pum20, Qua19, RGHK20, Zan16, Zho18]. **Higher-dimensional** [HR21, Hol19]. **higher-order** [Cas12, Zho18]. **Highest** [Gou18]. **Hilbert** [Van16a, Agn22, Aza09, ARTZ19, Bir19, Bor15, BP17, CW07, Chi19, Dem20, Ehl10, FW21, GH14, Hun18, JM11, LM15c, Su16, Tan12, Van12b]. **Hirschhorn** [CLN05]. **Hodge** [Anc17, MR06]. **Hoffman** [HS19b, Wak12b, Wak17]. **Holomorphic** [Gri11, HJ14, JSS14, KN09a, MP10, Han17, Ste16, Zha16]. **holomorphy** [MS16b]. **Holonomic** [PsR21]. **Homogeneous** [Bor15, Rey13]. **Homology** [Şen12, AD16b, LŞ20]. **horocycles** [Aka14]. **Hua** [LZ18a]. **Humbert** [Cou08]. **Hurwitz** [Sch14, Bao14, Bao15, DK21, Kri10, Lau13, Ono21, Rob20, Shp14]. **Hyper** [BU11b, Gur08]. **Hyper-** [BU11b]. **Hyper-Kloosterman** [Gur08]. **Hyperbolas** [GM12]. **Hyperbolic** [Şen12, BPZ14, Che18c]. **Hyperelliptic** [Gla09, Hub11b, MP22b, Sai10, BJ19, Cre18, EGP21, GR11, Gar18a, Jed22, Jun14, Sad16]. **Hypergeometric** [BK12, Goo17, Has10, HN08, HN10, HN11, KM12b, Kom13, McC10, MR06, Veg11, BG15a, BK13, BS15, BJMV14, Kal18, McC12, MP15, Miy15, Sad16, TSB20, ZL18b]. **hyperplanes** [Gho11, Pha22]. **hypersurface** [Le15]. **Hypersurfaces** [MR06, Pon06, Shp14, Goo17, HK21, Mig15, Miy15, Qua18]. **hypothèse** [BD10]. **hypotheses** [DP22]. **Hypothesis** [Olo09, CQh22, Dud15, WY21, BD10].

I.2 [Guo19b]. **Ideal** [Buc11, FP12b, FHL+13, Gra11, Lez12, Pál07, Vig12, Fuj20, Hsu16, Kom17, San09, Zam16]. **Ideals** [Bos09, Rüh10, Bat17b, BS19, Deb19, PZ16, SD20]. **idéaux** [Sod21]. **idempotent** [Wan21]. **idempotent-sum-free** [Wan21]. **identical** [Yan19]. **identification** [Mon14]. **Identities** [AALW08, BS12, Ber09, CLN05, CH09, GY07, Hua14, JL18a, Kim10a, Kim17b, Kop08, Li13, Liu12c, Sil07, Sun12, Sun17b, Tót13, Xio11, Yee09, AD16a, ACS09, And21c, Bao19, BN14, Bat17a, BCSX20, cC21b, Gug21, JMV16, hKS21, KP19, LW19, LW20, Mac16, MS22, Toh08, Tót18, Tsu18, Wan16, WC19, You16b, ZS20, Zha22a]. **Identity** [AAW10b, Coo06, Kim10b, Row10, All09, All17, cC21b, CHJL21, CBJ22, HS19b, JKK16, KL14, LHK18, Mér20, Tsu18, ZH16a, ZC17a, Cha10a]. **Igusa** [dS18a]. **Ihara** [Klo13]. **II** [CW19, ABK19, Bor20, BV09, Cha05, CP18a, DM19, Do17, Dum09, EGL21, FHL+13, GY07, Jed22, Kei21, KR10, KTZ18, LP13, LM15a, LX19, MAM06, MO20a, Mun10, PT14, SS18, SX14, TZ12b, Wal08, WS17, ZLZ13]. **II.16.12** [BI21]. **III**

Meš12]. **Z.-W.** [GL16, Mao17, Meš12]. **zêta** [JM10]. **Zagier** [Vs21, BKY19, BKY20, Fla18, Jam16]. **Zaharescu** [TB06]. **Zannier** [PZ18]. **Zeilberger** [Liu17a]. **Zeng** [NP18]. **Zero** [BGW11, GZZ15, Gek11, Gil13, GY16, HN11, Kad12, LP13, Mer11a, MS07, SX14, She22, Xia13, Zor13, AM15, Aym22, CP17, CP18a, GLPW18, Ge18, HZ18, LDSM19, MR15, PQSW14, PHLS19, Ram17, RL19, Sca17, TYZ16, YL16, ZW14a]. **Zero-Free** [HN11, Kad12, Mer11a]. **zero-one** [Ram17]. **Zero-Sum** [LP13, SX14, Xia13, GZZ15, AM15, CP17, CP18a, GLPW18, Ge18, HZ18, LDSM19, PHLS19, YL16, ZW14a]. **Zeroes** [Rod14, Moo19]. **Zeros** [AT22, Cho13a, Far08, Fuk08, GK13, Gun06, HJ14, Han17, JSS14, Suz05, DS18b, KTZ16, KTZ18, Lou15, MR15, SA09, XZ21, Zam16]. **Zeta** [Alk12, Bet10, Cou08, Far08, FP12a, HS19a, HN07, HN10, HN11, Hea14, Ivi05, Kad12, KO10, Lau13, LZ11, Li09, Li13, Mac12, OEL13, Rod14, RSW14, Sas15, TY13, Wak12b, AD18, AMSV21, BT18a, BB14a, BC10, BJMV14, DK21, ELO16, ELO17, EL18, GLZ15, Haj20, Har18, Hof17, Ivi16, Jar22, JVW20, JM10, Kan22, Kas19, KTZ16, KTZ18, KP19, Li15, LP20, LQ21, Lou15, Ma17, Mac16, MR15, Mer11a, MO20a, Mur17, MS18b, MP21, Ono21, Pat19b, SS21, SY19a, She22, Sun16c, Wak17, WV21, Yas16, You16b, You17, dS18a]. **Zeta-Function** [Ivi05, Lau13, Ivi16, Li15, MP21]. **Zeta-Star** [KO10, TY13, Wak12b]. **Zhang** [Fla18]. **Ziv** [FZ16, ZW14a]. **Zsigmondy** [ZJ19].

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