

# A Complete Bibliography of the *Journal of Number Theory* (2020–2029)

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06 April 2024  
Version 1.29

## Title word cross-reference

(1, 2) [203]. (2, 2) [947]. (2, 2n, 3) [583]. (4, 2, p) [945]. ( $\chi, b$ ) [770]. ( $m - 1, 1$ ) [967]. 0 [189]. 1/2 [497].  $1/2 < \Re(s) < 1$  [999]. 16 [62]. 2 [66, 79, 702, 813, 852, 913]. 3 [189, 751, 756, 923, 1041].  $3k - 4$  [206]. 4 [205]. 5 [95, 189]. 7 [95, 189, 753].  $8k + 3$  [681].  $> [294]$ .  $^1 [1022]$ .  $^2 [214]$ .  $^2 [300, 544]$ .  $^4 [467]$ .  $n [761]$ .  $nF_{n-1} [1079]$ . A [544, 553, 1091].  $\{a, 3a\}$  [454].  $A_n [137]$ . abc [995].  $\alpha [781]$ .  $\alpha\beta [306, 462]$ .  $AX^d + C [204]$ . b [371].  $\text{spt}_\omega(n) [735]$ .  $\binom{n}{k} = \binom{m}{l} + d [70]$ . modp<sup>k</sup> [927]. C [551].  $C_1 [617]$ .  $C_{p^2} [713]$ . D [534, 641].  $d(n) [631]$ .  $\Delta_{(1)}(x) [614]$ .  $E_5 [282, 446]$ .  $E_7 [282]$ .  $E_{7,3} [908]$ .  $E_8 [846]$ .  $\ell [533, 956]$ . F [641, 761].  $f(q) [430]$ .  $F_1 [671]$ .  $F_n \pm a(10^m - 1)9 = k! [752]$ .  $F_n \pm F_m = y^a [319]$ .  $F_q[T] [627, 1012]$ .  $\frac{L'}{L}(1/2 + \epsilon, \chi_D) [703]$ . G [302, 448].  $\Gamma [332, 572, 745]$ .  $\Gamma^*(k) [579]$ .  $\Gamma_0^+(2) [382]$ .  $\Gamma_0^+(N) [585]$ .  $\Gamma_1^\Delta(\mathbf{n}) [543]$ . GL(2) [255, 259]. GL(2)  $\times$  GL(2) [742]. GL(2)  $\times$  GL(3) [1007]. GL(3) [259]. GL(3)L [1007]. GL<sub>2</sub>(D) [1038]. GL<sub>2</sub>(F) [402]. GL<sub>3</sub>(R) [587]. GL<sub>N</sub> [749]. GSp(4)

[836].  $\mathrm{GSp}_4(\mathbf{Z}_p)$  [850].  $h^1 \neq h_1$  [413].  $\hat{\mathbf{Z}}$  [471].  $j$  [170, 693, 898].  $K$  [37, 106, 175, 258, 805, 917, 938, 1045, 1078].  $K^\times K^{\times p^m}$  [809].  $L$  [15, 20, 39, 44, 74, 75, 88, 116, 120, 121, 151, 178, 234, 251, 268, 271, 287, 293, 294, 340, 342, 345, 347, 363, 389, 435, 475, 529, 549, 582, 587, 602, 620, 627, 674, 686, 695, 697, 700, 731, 742, 747, 767, 779, 811, 826, 833, 835, 836, 847, 886, 920, 925, 948, 963, 976–978, 991, 1017, 1023, 1031, 1063, 1070].  $L(\tfrac{1}{2}, \chi)$  [136].  $L(\tfrac{1}{2}, \mathrm{Sym}^2 f \times g)$  [1104].  $L(\tfrac{1}{2}, \mathrm{Sym}^2 f \times g)$  [7].  $L(s) + L(2s) + \dots + L(Ns)$  [807].  $L^2$  [954].  $L^2(\mathbf{F}_2((T)))$  [866].  $L^2(\mathbf{Q}_2)$  [866].  $\lambda$  [386, 881, 959, 1024].  $\lfloor \alpha p + \beta \rfloor$  [411].  $m$  [132, 571, 856].  $M_{22}$  [494].  $\mathbf{N}$  [236].  $\mathbf{P}^n$  [35].  $\mathbf{Q}$  [25, 45, 224, 341, 494, 756, 923].  $\mathbf{Q}(-5)$  [446].  $\mathbf{Q}(\zeta_{2\ell+1})^+$  [533].  $\mathbf{Z}/p\mathbf{Z}$  [199].  $\mathbf{Z}[[x]]$  [183].  $\mathbf{Z}_m \times \mathbf{Z}_n$  [241].  $\mathbf{Q}(ap_1p_2)$  [740].  $\mathbf{Q}(\sqrt[p]{n})$  [233].  $\mathbf{p}$  [472].  $\mathbf{pm}$  [472].  $\mathrm{GL}(2)$  [54, 61, 178, 810].  $\mathrm{GL}_2$  [76, 121].  $\mathrm{GL}_3 \times \mathrm{GL}_1$  [121].  $\mathrm{GL}_n$  [83].  $\mathrm{PGL}_n(\mathbf{R})$  [13].  $\mathrm{SL}(3)$  [224].  $\mathrm{SL}_2(\mathbf{F}_p)$  [32].  $\mathrm{Co}_3$  [11].  $mn \leq x$  [241].  $\mu$  [595].  $N$  [56, 219, 245, 492, 944].  $N(D)$  [641].  $p$  [18, 47, 59, 126, 214, 320, 389, 402, 435, 491, 492, 526, 533, 566, 570, 575, 590, 651, 659, 666, 720, 786, 800, 811, 871, 886, 903, 904, 920, 922, 925, 927, 929, 952, 1042, 1076, 1079, 1081, 1088, 1092].  $p + 2k_t^{r_1} + \dots + 2k_t^{r_t}$  [1055].  $P^+(n)$  [379].  $P^+(n+1)$  [379].  $p_A(n, k)$  [953].  $\mathrm{PGL}_2\mathbf{Q}$  [763].  $\psi_n^2$  [481].  $q$  [301, 739, 889].  $R$  [41, 415, 930].  $R^d$  [466].  $S$  [131, 294, 734].  $S(t)$  [537].  $S_1(t)$  [537].  $\sigma$  [18, 1072].  $\sigma(2n+1) \geq \sigma(2n)$  [219].  $\mathrm{SL}(3, \mathbf{Z})$  [911].  $\mathrm{SL}_2$  [1071].  $\mathrm{SL}_2(\mathbf{o})$  [829].  $SL_2(Z)$  [884].  $\mathrm{SL}_3(\mathbf{Z})$  [883].  $\sum_{j=1}^k jF_j^p = F_n^q$  [260].  $T$  [54, 413, 418, 547, 549, 554, 742, 801, 1057].  $\theta_3(q)$  [242].  $\times$  [925].  $U(1)$  [193].  $U(n+1) \times U(n)$  [559].  $U_{2n+1} \times \mathrm{Res}_{E/F}\mathrm{GL}_m(m > n)$  [234].  $U_p$  [317].  $\varepsilon$  [47].  $\varphi$  [1072].  $\varphi_n$  [481].  $x$  [37].  $x^2 + y^2 + z^2 + k$  [633].  $x^6 + ax^3 + b$  [728].  $X_0(14)$  [403].  $X_0(N)$  [799].  $X_0(p)$  [337].  $y^2 = x^5 + ax$  [378].  $Y^2 = X^6 + 1$  [79].  $Z$  [160, 169, 1062, 1096].  $Z^n$  [591].  $Z_p$  [526, 556].  $\zeta$  [332].  $\zeta(1/2 + it)$  [376, 537, 1030].  $\zeta(s)$  [848, 999].  $\|a^x - b^y\| = k$  [710].  $|L(1, \chi)|$  [377, 630, 754].

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