

數學研究所

程舜仁 (CHENG, SHUN-JEN)

Shun-Jen Cheng, Jae-Hoon Kwon, 2016, "Finite-dimensional half-integer weight modules over queer Lie superalgebras", *Communications in Mathematical Physics*, 346, 945-965. (SCI) (IF: 2.375; SCI ranking: 9.4%)

李國偉 (LIH, KO-WEI)

Lih, Ko-Wei, Ziyu Hu, Daphne Der-Fen Liu, accepted, "Upper bounds on strong chromatic index of Halin graphs", *Discussiones Mathematicae Graph Theory*. (SCI) (IF: 0.349; SCI ranking: 87.5%)

Junran Lichen, Jianping Li, Ko-Wei Lee, 2016, "Approximations for constructing spanning K-trees using stock pieces of bounded length", *Optimization Letters*, 1-13. (SCI) (IF: 1.019; SCI ranking: 34.3%,62.2%)

Lih, Ko-Wei, Min Chen, Weifan Wang, 2016, "On choosability with separation of planar graphs without adjacent short cycles", *Bulletin of the Malaysian Mathematical Sciences Society*, DOI: 10.1007/s40840-016-0409-0. (SCI) (IF: 0.64; SCI ranking: 46.5%)

黃啟瑞 (HWANG, CHII-RUEY)

Hwang, Chii-Ruey, Ting-Li Chen, Hironori Fujisawa, Su-Yun Huang, 2016, "On the weak convergence and Central Limit Theorem of blurring and nonblurring processes with application to robust location estimation", *JOURNAL OF MULTIVARIATE ANALYSIS*, 143, 165-184. (SCI) (IF: 0.857; SCI ranking: 52%)

周雲雄 (CHOW, YUN-SHYONG)

Chow, Yun-Shyong and Chen H.-C., 2016, "Stability of Cournot Equilibria Under Discrete Best-Reply Dynamics with Non-negative Output Constraints", *ECONOMICS LETTERS*, 149, 172-175. (SSCI) (IF: 0.603; SSCI ranking: 66.7%)

Chow, Yun-Shyong and Chen J.-Y., 2016, "A heat conduction problem on some semi-infinite regions", *TAIWANESE JOURNAL OF MATHEMATICS*, 20(2), 387-398. (SCI) (IF: 0.617; SCI ranking: 49.7%)

Chow, Yun-Shyong and Jang Sophia, 2016, "Neimark-Sacker bifurcations in a host-parasitoid system with a host refuge", *DISCRETE AND CONTINUOUS DYNAMICAL SYSTEMS-SERIES B*, 21(6), 1713-1728. (SCI) (IF: 1.227; SCI ranking: 24.4%)

鄭日新 (CHENG, JIH-HSIN)

Cheng, Jih-Hsin, Malchiodi A., Yang P., accepted, "A positive mass theorem in three dimensional Cauchy-Riemann geometry", *Advances in Mathematics*. (SCI) (IF: 1.405; SCI ranking: 7.4%)

Cheng, Jih-Hsin, Chiu H.-L., Hwang J.-F., Yang P., 2016, "Umbilic hypersurfaces of constant sigma-k curvature in the Heisenberg group", *Calculus of Variations and Partial Differential Equations*, 55(3). (SCI) (IF: 1.555; SCI ranking: 13.4%,6.1%)

葉永南 (YEH, YEONG-NAN)

Shimei Ma, Yeong-Nan Yeh, accepted, “Stirling permutations, cycle structures of permutations and perfect matchings”, *The Electronic Journal of Combinatorics*, 22(4). (SCI) (IF: 0.612; SCI ranking: 50.6%,72.4%)

Ya-Lei Jin, Xiao-Dong Zhang, Yeong-Nan Yeh, 2016, “Laplacian Coefficient, Matching Polynomial and Incidence Energy of of Trees with Described Maximum Degree”, *JOURNAL OF COMBINATORIAL OPTIMIZATION*, 31, 1345-1372. (SCI) (IF: 1.08; SCI ranking: 72.1%,31.9%)

Yeong-Nan Yeh, Xiang-Ke Chang, Xing-Biao Hu, Hongchuan Lei, 2016, “Combinatorial proofs of addition formulas”, *Electronic Journal of Combinatorics*, 23, P1.8. (SCI) (IF: 0.612; SCI ranking: 50.6%,72.4%)

Hongchuan Lei, Yeong-Nan Yeh, Heping Zhang, 2016, “Anti-forcing numbers of perfect matchings of graphs”, *Discret applied mathematics*, 202, 95-105. (SCI) (IF: 0.722; SCI ranking: 59.4%)

Yeh, Yeong-Nan, Shi-Mei Ma , 2016, “Enumeration of permutations by number of alternating descents”, *DISCRETE MATHEMATICS*, 339, 1362-1367. (SCI) (IF: 0.6; SCI ranking: 51.9%)

Yeh, Yeong-Nan , Ma jun, 2016, “Parking functions on nonsingular M-matrices”, *Linear Algebra and its Applications*, 489, 1-14. (SCI) (IF: 0.965; SCI ranking: 38.6%,20.5%)

Yeh, Yeong-Nan, Shi-Mei Ma , 2016, “The peak statistics on simsun permutations”, *Electronic Journal of Combinatorics*, 23 P2.14. (SCI) (IF: 0.612; SCI ranking: 50.6%,72.4%)

周文賢 (CHOU, WUN-SENG)

Wun-Seng Chow, X. Cao, accepted, “More constructions of near optimal codebooks associated with binary sequences”, *Advances Math. Commun.*

Wun-Seng Chow, X. Cao, J. Gu, 2016, “On the number of solutions of certain diagonal equations over finite fields”, *FINITE FIELDS AND THEIR APPLICATIONS*, 42, 225-252. (SCI) (IF: 1.292; SCI ranking: 9.6%,23.2%)

許健明 (HUI, KIN-MING)

K.M. Hui, submitted, “Asymptotic behaviour of solutions of the fast diffusion equation near its extinction time (preprint)”, <http://arxiv.org/abs/1407.2696v2>. (Others)

Kin Ming Hui and Soojung Kim, submitted, “Asymptotic large time behavior of singular solutions of the fast diffusion equation”, <http://arxiv.org/abs/1508.01980>. (Others)

K.M.Hui, Sunghoon Kim, submitted, “Singular limit of the generalized Burgers equation with absorption”, <http://arxiv.org/abs/1501.04253>.

黃振芳 (HWANG, JENN-FANG)

Jih-Hsin Cheng, Hung-Lin Chiu, Jenn-Fang Hwang, Paul Yang, 2016, “Umbilic hypersurfaces of constant sigma-k curvature in the Heisenberg group”, *Calculus of Variations and Partial*

Differential Equations, 55(3), 55:66. (SCI) (IF: 1.555; SCI ranking: 13.4%,6.1%)

黃一樵 (HUANG, I-CHIAU)

Huang, I-Chiau, 2016, “Extensions of Tangent Cones of Monomial Curves”, *JOURNAL OF PURE AND APPLIED ALGEBRA*, 220, 3437-3449. (SCI) (IF: 0.669; SCI ranking: 41.3%,65%)

王姿月 (WANG, TZU-YUEH)

Hector Pasten, Julie Tzu-Yueh Wang, 2016, “GCD bounds for analytic functions”, *INTERNATIONAL MATHEMATICS RESEARCH NOTICES*, 1-49. (SCI) (IF: 1.031; SCI ranking: 17.3%)

余家富 (YU, CHIA-FU)

Yu, Chia-Fu, submitted, “Abelian varieties over finite fields as basic abelian varieties”, *To appear in Forum Math.*

Yu, Chia-Fu, submitted, “Notes on locally free class groups.”, *arXiv:1506.04697, 10 pp. Submitted.*

J. Xue, T.-C. Yang and C.-F. Yu, 2016, “Numerical invariants of totally imaginary quadratic $\mathbb{Z}[\sqrt{p}]$ -orders.”, 《TAIWANESE JOURNAL OF MATHEMATICS》, 20(4), 723-741. (SCI) (IF: 0.617; SCI ranking: 49.7%)

Chia-Fu Yu, 2016, “On existence and density of the ordinary locus of certain Shimura varieties”, 36, 361-379 pages, paper presented at *The 6th International Congress of Chinese Mathematicians*, 2016.

林正洪 (LAM, CHING HUNG)

Hsian-Yang Chen, Ching Hung Lam, 2016, “Quantum dimensions and fusion rules of the VOA $V_{L_{C \times D}}^T$ ”, *Journal of Algebra*, 459, 309-349. (SCI) (IF: 0.66; SCI ranking: 42.9%)

Lam, Ching Hung, Hiroki Shimakura, 2016, “Orbifold construction of holomorphic vertex operator algebras associated to inner automorphisms”, *Communications in Mathematical Physics*, 342(3), 803-841. (SCI) (IF: 2.375; SCI ranking: 9.4%)

Lam, Ching Hung, Shimakura, Hiroki, 2016, “A holomorphic vertex operator algebras of central charge 24 whose weight one Lie algebra has type $A_{6,7}$ ”, *Letters in Mathematical Physics*, 1575-1585. (SCI) (IF: 1.517; SCI ranking: 39.6%)

艾沃克 (VOLKER, ELLING)

Elling Volker, 2016, “Self-similar 2d Euler solutions with mixed-sign vorticity”, *Communications in Mathematical Physics*, 348(1), 27-68. (SCI) (IF: 2.375; SCI ranking: 9.4%)

謝銘倫 (HSIEH, MING-LUN)

Ming-Lun Hsieh, Kenichi Namikawa, 2016, “Bessel periods and the non-vanishing of Yoshida lifts modulo a prime”, *Mathematische Zeitschrift*, 1-28. (SCI) (IF: 0.674; SCI ranking: 40.7%)

Masataka Chida, Ming-Lun Hsieh, 2016, "Special values of anticyclotomic L-functions for modular forms", *Journal für die reine und angewandte Mathematik*, DOI 10.1515/crelle-2015-0072. (SCI) (IF: 1.616; SCI ranking: 5.8%)

梁惠禎 (LIANG, FEI-TSEN)

Liang, Fei-tsen, to appear, "On hypersurfaces of constant Gauss curvature with prescribed boundary", *Theoretical mathematics and applications*, 6(2), 37-49.

陳怡全 (CHEN, YI-CHIUAN)

Yi-Chiuan Chen, submitted, "A proof of Devaney-Nitecki region for the Henon mapping using the anti-integrable limit", *Preprint*.

Yi-Chiuan Chen, submitted, "Transitions and anti-integrable limits for multi-hole Sturmian systems and Denjoy counterexamples", *Preprint*.

蕭欽玉 (HSIAO, CHIN-YU)

Hsiao, Chin-Yu, accepted, "Szegö kernel asymptotics for high power of CR line bundles and Kodaira embedding theorems on CR manifolds ", *MEMOIRS OF THE AMERICAN MATHEMATICAL SOCIETY*, arXiv:1401.6647. (SCI) (IF: 1.038; SCI ranking: 17%)

Chin-Yu Hsiao, Xiaoshan Li, 2016, "Morse inequalities for positive Fourier coefficients on CR manifolds with S^1 action", *MATHEMATISCHE ZEITSCHRIFT*, Math. Z. 284 (2016), no. 1-2, 441--468. (SCI) (IF: 0.674; SCI ranking: 40.7%)

Chin-Yu Hsiao, Xiaoshan Li, 2016, "Szegö kernel asymptotics and Morse inequalities on CR manifolds with S^1 action", *submitted*, arXiv:1502.02365.

Chin-Yu Hsiao, 2016, "The second coefficient of the asymptotic expansion of the weighted Bergman kernel on C^n ", *Bulletin of the Institute of Mathematics Academia Sinica*, Volume(11) 2016, Page 521--570.

Jeffrey S. Case, Chin-Yu Hsiao, Paul Yang, 2016, "Extremal metrics for the Q' -curvature in three dimensions", *COMPTES RENDUS DE L ACADEMIE DES SCIENCES SERIE I-MATHEMATIQUE*, no. 4, 407-410.

林玉端 (LIN, YU-TUAN)

Lin Yu-Tuan, Shih Yin-Tzer, Tsai Chih-Ching, 2016, "An Anisotropic Convection-Diffusion Model Using Tailored Finite Point Method for Image Denoising and Compression", *Communications in Computational Physics*, 19(05), 1357-1374. (SCI) (IF: 1.778; SCI ranking: 26.4%)

Tsai Chih-Ching, Shih Yin-Tzer, Lin Yu-Tuan, Wang Hui-Ching, 2016, "Tailored finite point method for solving one-dimensional Burgers' equation", *International Journal of Computer Mathematics*, 2016, 1-13. (SCI) (IF: 0.577; SCI ranking: 77.6%)