PUBLICATION LIST

While working on the papers, undergraduate students are marked with a *

Submitted

- (1) S. Chern, L. Jiu, and I. Simonelli, A central limit theorem for a card shuffling problem, Submitted for Publication.
- (2) L. Jiu and D. Y. H. Shi, On b-ary binomial coefficients with negative entries, Submitted for Publication.

Accepted

- (1) S. Chern and **L. Jiu**, Hankel determinants and Jacobi continued fractions for *q*-Euler numbers, To Appear in *C. R. Math. Acad. Sci. Paris*.
- (2) **L. Jiu** and Y. Li*, Hankel determinants of certain sequences of Bernoulli polynomials: A direct proof of an inverse matrix entry from Statistics, To Appear in *Contrib. Discrete Math*.
- (3) K. Dilcher and L. Jiu, Hankel determinants of shifted sequences of Bernoulli and Euler numbers, To Appear in *Contrib. Discrete Math.*

Published

- (1) Z. Bradshaw, I. Gonzalez, L. Jiu, V. H. Moll, and C. Vignat, Compatibility of the method of brackets with classical integration rules, *Open Math.* 21 (2023), Article number: 20220581.
- (2) **L. Jiu** and D. Y. H. Shi, Moments and cumulants on identities for Bernoulli and Euler numbers, *Math. Reports* **24** (2022), 643–650.
- (3) **L. Jiu** I. Simonelli, and H. Yue*, Random walk models for nontrivial identities of Bernoulli and Euler polynomials, *Integers*, **22** (2022), A91.
- (4) K. Dilcher and L. Jiu, Hankel Determinants of sequences related to Bernoulli and Euler Polynomials, *Int. J. Number Theory* **18** (2022), 331–359.
- (5) K. Dilcher and L. Jiu, Orthogonal polynomials and Hankel determinants for certain Bernoulli and Euler polynomials, *J. Math. Anal. Appl.* **497** (2021), Article 124855.
- (6) I. Gonzales, L. Jiu, and V. H. Moll, An extension of the method of brackets. Part 2, *Open Math.* 18 (2020), 983–955.
- (7) L. Jiu and C. Koutschan, Calculation and properties of zonal polynomials, *Math. Comput. Sci.* 14 (2020), 623–640.
- (8) N. Takayama, L. Jiu, S. Kuriki, and Y. Zhang, Computations of the Expected Euler Characteristic for the Largest Eigenvalue of a Real Wishart Matrix, *J. Multivariate Anal.* **179** (2020), Article 104642.
- (9) **L. Jiu**, C. Vignat, and T. Wakhare, Analytic Continuation for Multiple Zeta Values using Symbolic Representations, *Int. J. Number Theory* **16** (2020), 579–602.
- (10) **L. Jiu** and C. Vignat, Connection coefficients for higher-order Bernoulli and Euler polynomials: a random walk approach, *Fibonacci Quart.* **57** (2019), 84–95.
- (11) L. Jiu and D. Y. H. Shi, Matrix representation for multiplicative nested sums, Collog. Math. 158 (2019), 183–194.
- (12) **L. Jiu** and D. Y. H. Shi, Orthogonal polynomials and connection to generalized Motzkin numbers for higher-order Euler polynomials, *J. Number Theory* **199** (2019), 389–402.
- (13) I. Gonzalez, K. Kohl, **L. Jiu**, and V. H. Moll, The method of brackets in experimental mathematics, *Frontiers of Orthogonal Polynomials and q-Series*, Z. Nashed and X. Li eds., World Scientific Publishers, 2018.
- (14) **L. Jiu**, V. H. Moll, and C. Vignat, A symbolic approach to multiple zeta values at the negative integers, *J. Symbolic Comput.* **84** (2018), 1–13.

- (15) I. Gonzales, K. Kohl, L. Jiu, and V. H. Moll, An extension of the method of brackets. Part 1, *Open Math.* 15 (2017), 1181–1211.
- (16) **L. Jiu**, Integral representations of equally positive integer-indexed harmonic sums at infinity, *Research in Number Theory* **3** (2017), Article 3:10.
- (17) C. Li, E. Zhang, **L. Jiu**, and H. Sun, Optimal control on special Euclidean group via natural gradient descent algorithm, *Sci. China Inf. Sci.* **59** (2016), Article: 112203.
- (18) I. Gonzalez, **L. Jiu**, and V. H. Moll, Pochhammer symbol with negative indices. A new rule for the method of brackets, *Open Math.* **14** (2016), 681–686.
- (19) T. Amdeberhan, A. Dixit, X. Guan, L. Jiu, A. Kuznetsov, V. H. Moll, and C. Vignat, The integrals in Gradshteyn and Ryzhik. Part 30: trigonometric functions, *Scientia Series A: Mathematical Sciences* 27 (2016), 47–74.
- (20) T. Amdeberhan, A. Dixit, X. Guan, L. Jiu, V. H. Moll, and C. Vignat, A series involving Catalan numbers. Proofs and demonstrations, *Elem. Math.* **71** (2016), 109–121.
- (21) L. Jiu and C. Vignat, On binomial identities in arbitrary bases, J. Integer Seq. 19 (2016), Article 16.5.5.
- (22) **L. Jiu**, V. H. Moll, and C. Vignat, A symbolic approach to some identities for Bernoulli-Barnes polynomials, *Int. J. Number Theory* **12** (2016), 649–662.
- (23) A. Dixit, **L. Jiu**, V. H. Moll, and C. Vignat, The finite Fourier transform of classical polynomials, *J. Aust. Math. Soc.* **98** (2015), 145–160.
- (24) T. Amdeberhan, A. Dixit, X. Guan, L. Jiu and V. H. Moll, The unimodality of a polynomial coming from a rational integral. Back to the original proof, *J. Math. Anal. Appl.* 420 (2014), 1154–1166.
- (25) A. Byrnes*, L. Jiu, V. H. Moll, and C. Vignat, Recursion rules for the hypergeometric zeta functions, *Int. J. Number Theory* **10** (2014), 1761–1782.
- (26) **L. Jiu**, V. H. Moll, and C. Vignat, Identities for generalized Euler polynomials, Integral Transforms *Spec. Funct.* **25** (2014), 777–789.
- (27) Z. Zhang, H. Sun, L. Jiu, and L. Peng, A natural gradient algorithm for stochastic distribution systems, *Entropy* **16** (2014), 4338–4352.
- (28) F. Zhang, H. Sun, **L. Jiu**, and L. Peng, The arc length variational formula on the exponential manifold, *Math. Slovaca* **63** (2013), 1101–1112.
- (29) L. Peng, H. Sun, and L. Jiu, The geometric structure of the Pareto distribution, Bol. Asoc. Mat. Venez. 14 (2007), 5–13.
- (30) L. Jiu and H. Sun, On minimal homothetical hypersurfaces, Collog. Math. 109 (2007), 239–249.
- (31) X. Wang and **L. Jiu**, Characterizing hypersurfaces of generalized rotation through its normal lines, *Journal of Ningde Normal University (Natural Science)* **02** (2006), 117–119.