Publications

CRISTINA BALLANTINE
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1. Combinatorial proofs of inequalities involving the number of partitions with parts separated by parity (with Amanda Welch), submitted.

2. Jacobi’s cubic analog of the pentagonal number theorem and representations of $24n + 5$ as a sum of two squares (with Mircea Merca), submitted.

3. Combinatorial aspects of truncated theta series and related results (with Brooke Feigon), submitted.


5. Parity of 3-regular partition numbers and Diophantine equations (with Mircea Merca and Cristian-Silviu Radu), submitted, minor revisions requested.


10. Combinatorial proofs of Merca’s identities involving the sum of different parts congruent to $r$ modulo $m$ in all partitions of $n$, Integers 24 (2024), Paper No. A15, 14 pp.


17. 4-Regular partitions and the pod function (with Mircea Merca), *Quaest. Math.* 46 (2023), no. 10, 2027–2051.

18. On the number of parts in all partitions enumerated by the Rogers-Ramanujan identities (with Amanda Folsom), accepted to the Proceeding of the Subbarao Symposium.


32. Combinatorial proofs of two theorems related to the number of even parts in all partitions of $n$ into distinct parts (with Mircea Merca), *Ramanujan J.* 54 (2021), no. 1, 107–112.

33. The $r$-Stirling numbers of the first kind in terms of the Möbius function (with Mircea Merca), *Ramanujan J.* 55 (2021), no. 2, 593–608.


42. Quasisymmetric Power Sums (with Zajj Daugherty, Angela Hicks, Sarah Mason and Elizabeth Niese), Proceedings of the 30th Conference on Formal Power Series and Algebraic Combinatorics (Hanover), *Séminaire Lotharingien de Combinatoire* 80B (2018), Article #25, 12 pp.


63. On the Kronecker Product $s_{(n–p,p)} * s_{\lambda}$ (with R. Orellana), refereed abstract, on CD-ROM: FPSAC (Formal Power Series and Algebraic Combinatorics) 2005, Taormina, Italy.


66. Ramanujan Type Graphs and Bigraphs, Dynamical systems and differential equations (Wilmington, NC, 2002), *Discrete and Continuous Dynamical Systems*, 2003, suppl., 78–82.


**Non-refereed Publications**


71. Rolle’s Theorem over Local Fields (with T. Shemanske), preprint


**Translations**