

Department of Mathematics and Statistics at UNM Publications

compiled by María Cristina Pereyra

Papers published/accepted in 2022

1. **N. Berkopce**^{† † †}, J. Branck, R. Heikkinen, C. Nunn, and T. A. Wong, *The density of elliptic Dedekind sums*. Acta Arithmetica 205 (2022) , 33–40.
<https://doi.org/10.4064/aa210921-27-7>
2. **O. Beznosov**^{††}, **J. A. Ellison**^{**}, **K. Heinemann**^{***}, J. A. Crittenden, G. Hoffstaetter, D. Sagan, and D. P. Barber, *Spin Matching and Monte-Carlo Simulation of Radiative Spin Depolarization in $e^+ - e^-$ Storage Rings with Bmad*. 13th Int. Particle Acc. Conf. IPAC2022, Bangkok, Thailand JACoW Publishing (2022).
<https://doi.org/10.18429/JACoW-IPAC2022-WEPOMS056>
3. **M.D. Blair**^{*}, *The Van Vleck Formula on Ehrenfest time scales and stationary phase asymptotics for frequency-dependent phases*. Communications in Mathematical Physics **392** (2), 517–543 (2022). <https://doi.org/10.1007/s00220-022-04384-z>
4. **M.D. Blair**^{*}, X. Huang, Y. Sire, and C. Sogge, *Uniform Sobolev Estimates on compact manifolds involving singular potentials*. Rev. Mat. Iberoam. **38** (2022), no. 4, pp. 1239–1286. <https://doi.org/10.4171/RMI/1300>
5. **C. P. Boyer**^{**} and C. W. Tonnesen-Friedman, *Constant Scalar Curvature Sasaki Metrics and Projective Bundles*. To appear in Birational Geometry, Kähler-Einstein Metrics, and Degeneration in the Springer Proceedings in Mathematics & Statistics, (2023).
6. **C. P. Boyer**^{**} and C. W. Tonnesen-Friedman, *Iterated S^3 Sasaki joins and Bott orbifolds*. Ann. Fac. Sci. Toulouse Math. (6) **31** (2022), no. 3, 837–860.
7. **C. P. Boyer**^{**}, and Christina Tønnesen-Friedman, *The $S^3_{\mathbf{w}}$ Sasaki Join Construction*. J. Math. Soc. Japan **74** (2022), no. 4, 1335–1371.
<https://doi.org/10.2969/jmsj/83828382>
8. **B. Brown**^{***}, founder, editor and publisher, *Fixed and Free Poetry Quarterly*. Inaugural volume 1 (2022), issues 1 (March), 160 pp.; 2 (June), 206 pp.; 3 (September), 232 pp.; and 4 (December), 207 pp.
9. **A. Buium**^{*} and L.E.Miller, *Purely arithmetic PDEs over a p -adic field, I: δ -characters and δ -modular forms*. Memoirs of the Eur. Math Soc. (MEMS) (80 pages) (accepted 2022, issued 2023). Preprint available arXiv:2103.16627.

10. **A. Buium*** and L. E. Miller, *Perfectoid spaces arising from arithmetic differential equations*. American J. Math. (accepted December 2021, issued 2023), preprint available arXiv:1911.00113.
11. **J. Chaudhry***, D. Estep, **T. Giannini†**, **Z. Stevens†**, and S. Tavener, *Error estimation for the time to a threshold value in evolutionary partial differential equations*. BIT Numerical Mathematics (Accepted 2022). <https://doi.org/10.1007/s10543-023-00947-1>
12. **R. Christensen***, *Comment on ‘On Optimal Correlation-Based Prediction,’ by Bottai et al. (2022)*. The American Statistician **76** (4), 322–322 (2022). <https://doi.org/10.1080/00031305.2022.2055644>
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16. **H. S. Dumas***** and S. Fischler, *Filling times for linear flow on the torus with truncated Diophantine conditions: a brief review and new proof*. Qual. Theory Dyn. Syst. 21 (2022), no. 4, Paper No. 103, 15 pp. <https://doi.org/10.1007/s12346-022-00637-3>
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