

PUBLICATION LIST

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Articles Published in Refereed Journals.

- (1) “Categorified Algebra and Quantum Mechanics”, Theory and Applications of Categories, vol 16, pp 785-854, 2006 (68 pages)
- (2) “Double Bicategories and Double Cospans”, Journal of Homotopy and Related Structures, vol 4, no. 1 (35 pages)
- (3) “2-Vector Spaces and Finite Groupoids”, Applied Categorical Structures, vol 19, no. 4 pp659-707. (44 pages)

Articles Submitted To Refereed Journals.

- (1) “Extended TQFT, Gauge Theory, and 2-Linearization”, submitted to Journal of Topology (significantly revised version of arxiv:1003.5603) (53 pages)

Other Published Work.

- (1) “Extended TQFT’s and Quantum Gravity”. Ph.D. Thesis, Department of Mathematics, University of California, Riverside, 2007.
- (2) “Existence and Nonexistence Theorems for Solutions to the Einstein-Dirac-Maxwell Equations” Masters Thesis, Department of Mathematics and Statistics, McGill University, 2001.

Work In Progress.

- (1) “Groupoidification and Khovanov’s Categorification of the Heisenberg Algebra” (Joint work with Jamie Vicary)
- (2) “Extended TQFT in Hilbert Bimodules” (Joint work with Derek Wise)
- (3) “Higher Gauge Theory and Transformation 2-Groupoids” (Joint work with Roger Picken)