

DANIEL K. BISS
PUBLICATION LIST

Research Publications

1. "Coxeter matroids, Schubert cells, and homogeneous spaces for reductive groups," in preparation.
2. "Morphisms and topology of combinatorial differential manifolds," in preparation.
3. "Oriented matroids, complex manifolds, and a combinatorial model for BU ," submitted.
4. "The homotopy type of the matroid Grassmannian," submitted.
5. "The mod 2 equivariant cohomology of real loci," with Victor Guillemin and Tara Holm, submitted.
6. "The topological fundamental group and generalized covering spaces," to appear, *Topology Appl.*
7. "A presentation for the unipotent group over rings with identity," with Samit Dasgupta, *J. Algebra* **237** (2001), no. 2, 691–707.
8. "Hamiltonian decomposition of recursive circulant graphs," *Discrete Math.* **214** (2000), no. 1-3, 89–99.
9. "On the symmetry groups of hypergraphs of perfect cwatsets," *Ars Combin.* **56** (2000), 271–288.
10. "A lower bound on the number of functions satisfying the strict avalanche criterion," *Discrete Math.* **185** (1998), no. 1-3, 29–39.
11. "A presentation for the unipotent group over \mathbf{F}_2 ," *Comm. Algebra* **26** (1998), no. 9, 2971–2975.

Expository Writing

1. "Which functor is the projective line?" to appear, *Amer. Math. Monthly*.
2. "A generalized approach to the fundamental group," *Amer. Math. Monthly* **107** (2000), no. 8, 711–720.
3. "Student mentors in the Duluth mathematics REU," with Daniel Isaksen, *CUR Quarterly*, June 2000, 163–164, 166–167.
4. "Homotopy theory with a view toward stable computations," A.B. thesis, Harvard University, 1998.