

## Publications (Chronological order)

1. **T. Holm** and K. Bogart, “On tolerance sphere-of-influence graphs.” *Bull. Inst. Combin. Appl.* **24** (1998) 33–46.
2. **T. Holm**, “On majority domination in graphs.” *Discrete Math.*, **239** (2001) 1–12.
3. R. Goldin and **T. Holm**, “The equivariant cohomology of Hamiltonian  $G$ -spaces from residual  $S^1$  actions’.” *Math. Research Letters* **8** (2001) 67–78.
4. R. Goldin, **T. Holm**, and L. Jeffrey, “Distinguishing chambers of the moment polytope.” *Journal of Symplectic Geometry* **2** (2003), no. 1, 109–131.
5. D. Biss, V. Guillemin and **T. Holm**, “The mod 2 equivariant cohomology of real loci.” *Adv. Math.* **185** (2004) no. 2, 370–399.
6. V. Guillemin and **T. Holm**, “GKM theory for torus actions with non-isolated fixed points.” *International Math. Res. Notices* **40** (2004) 2105–2124.
7. R. Goldin and **T. Holm**, “Real loci of symplectic reductions.” *Trans. AMS*, **356** (2004), no. 11, 4623–4642.
8. J.-Cl. Hausmann, **T. Holm**, and V. Puppe, “Conjugation spaces.” *Algebr. Geom. Topol.* **5** (2005) 923–964.
9. M. Harada, A. Henriques, and **T. Holm**, “Computation of generalized equivariant cohomologies of Kac-Moody flag varieties.” *Adv. Math.*, **197** (2005) No. 1, 198–221  
This is a substantially rewritten version of the preprint math.DG/0402079.
10. M. Harada and **T. Holm**, “The equivariant cohomology of hypertoric varieties and their real loci.” *Communications in Analysis and Geometry*, **13** (2005) No. 3 645–677.
11. V. Guillemin, **T. Holm**, and C. Zara, “A GKM description of the equivariant cohomology ring of a homogeneous space.” *J. Algebraic Combin.* **23** (2006) no. 1, 21–41.
12. M. Harada, **T. Holm**, L. Jeffrey and A-L. Mare, “Connectivity properties of moment maps on based loop groups.” *Geom. Topol.* **10** (2006), 1607–1634.
13. R. Goldin, **T. Holm**, and A. Knutson, “Orbifold cohomology of torus quotients.” *Duke Math. J.* **139** (2007) no. 1, 89–139.
14. **T. Holm**, “Orbifold cohomology of abelian symplectic reductions and the case of weighted projective spaces.” *Poisson geometry in mathematics and physics*, 127–146, *Contemp. Math.*, **450** Amer. Math. Soc., Providence, RI, 2008.
15. **T. Holm** and R. Sjamaar, “Torsion and abelianization in equivariant cohomology.” *Transf. Groups* **13** (2008), no. 3-4, 585–615.
16. **T. Holm**, “Act globally, compute locally: group actions, fixed points, and localization.” *Toric topology*, 179–195, *Contemp. Math.*, **460** Amer. Math. Soc., Providence, RI, 2008.
17. R. Goldin, M. Harada, **T. Holm**, and T. Kimura, “The Full Orbifold  $K$ -theory of Abelian Symplectic Quotients.” *J. K-Theory*, **8** (2011) 339–362.

18. J-Cl. Hausmann and **T. Holm**, “Conjugation spaces and edges of compatible torus actions.” in *Geometric aspects of analysis and mechanics*, 179–198, *Progr. Math.*, **292**, Birkhäuser/Springer, New York, 2011.
19. R. Goldin, M. Harada, and **T. Holm**, “Torsion in the full orbifold K-theory of abelian symplectic quotients.” *Geom. Dedicata* **157** (2012) No. 1, 187–204.
20. **T. Holm** and T. Matsumura, “Equivariant cohomology for Hamiltonian torus actions on symplectic orbifolds.” *Transf. Groups* **17** (2012) No. 3, 717–746.
21. **T. Holm** and A. R. Pires, “The topology of toric origami manifolds.” *Math. Research Letters*, **20** (2013) no.5, pp.885–906.

### Preprints

22. E. Bolker, V. Guillemin, and **T. Holm**, “How is a graph like a manifold?”  
Preprint [math.CO/0206103](#).  
UPDATE: This is currently being turned into a substantially longer monograph, together with C. Zara. We aim to have the manuscript submitted with the AMS by the end of Summer 2015.
23. J-Cl. Hausmann and **T. Holm**, “Simple Hamiltonian manifolds.” Recently accepted at *Communications in Analysis and Geometry*. Preprint [arXiv:1012.4740](#).
24. M. Harada, **T. Holm**, N. Ray, and G. Williams, “The equivariant  $K$ -theory and cobordism rings of divisive weighted projective spaces.” Submitted. Preprint [arXiv:1306.1641](#).
25. **T. Holm** and Y. Karshon, “The Morse-Bott-Kirwan condition is local.” Submitted. Preprint [arXiv:1407.3526](#).
26. **T. Holm** and A. R. Pires, “The fundamental group and Betti numbers of toric origami manifolds.” Submitted. Preprint [arXiv:1407.4737](#).

### Conference proceedings, expository articles and theses

27. E. Friedlander, **T. Holm**, J. Ewing, R. Goldin, W. Jaco, T. Stevens, A. Thompson, and D. Vogan “Opinion: Mathematicians’ Central Role in Educating the STEM Workforce” *Notices of the AMS* **59** (2012) No. 9, 1205–1206.
28. **T. Holm**, “The Topology of Toric Origami Manifolds.”  
(based on joint work with A. Pires)  
*Toric geometry*. Abstracts from the workshop held April 15–21, 2012. *Oberwolfach Rep.* **21** (2012) 46–49.
29. **T. Holm**, ”Topological invariants of orbifolds.”  
(based in part on joint work with R. Goldin and M. Harada)  
*Manifold perspectives*. Abstracts from the workshop held May 24–30, 2009. *Oberwolfach Rep.* **6** (2009) no. 1, 1531–1534.

30. R. Goldin, **T. Holm**, and A. Knutson, “Kirwan surjectivity for preorbifold cohomology.”  
*Cohomological Aspects of Hamiltonian Group Actions*, Mathematisches Forschungsinstitut Oberwolfach Report no. 20 (2004) 36–39.
31. **T. Holm** and S. Simonson, “Using a card trick to teach discrete mathematics.”  
PRIMUS, **XIII** no. 3 (2003), 248–269.
32. **T. Holm**, *Equivariant Cohomology, Homogeneous Spaces and Graphs*  
Ph.D. Thesis, MIT, 2002.
33. **T. Holm**, *Tolerance Sphere-of-Influence Graphs*  
Senior Honors Thesis, Dartmouth College, 1997.