

---

**TARA HOLM**, Cornell University, Department of Mathematics, Ithaca, NY 14853-4201 USA

*Integral cohomology of symplectic quotients*

I will describe some work in progress on computing the integral cohomology of symplectic reductions. Under a hypothesis on the isotropy groups, we may prove that the Kirwan map from equivariant cohomology of the total space to the ordinary cohomology of the reduced space, both with integer coefficients, is a surjection. We will apply this result to compute the integral cohomology of certain toric orbifolds.

This talk is based on joint work with Susan Tolman.