1117-13-496   **Robert Krone*** (`rk71@queensu.ca`). *Equivariant Gröbner bases of symmetric toric ideals.*

It has been shown previously that a large class of monomial maps equivariant under the action of an infinite symmetric group have finitely generated kernels up to the symmetric action. We prove that these symmetric toric ideals also have finite Gröbner bases up to symmetry for certain monomial orders. An algorithm is presented to compute equivariant Gröbner bases of these ideals, given the monomial map. (Received January 19, 2016)