Ashley K. Wheeler* (ashleykw@uark.edu), Department of Mathematical Sciences, SCEN 309, University of Arkansas, Fayetteville, AR 72701, Roberto Barrera (rbarrera@math.tamu.edu), Department of Mathematics, Mailstop 3368, Texas A & M University, College Station, TX 77843-3368, and Jeffrey Madsen (madsen4@purdue.edu), Department of Mathematics, Purdue University, 150 North University Street, West Lafayette, IN 47907-2067. Finiteness of associated primes of local cohomology modules over Stanley-Reisner rings. Preliminary report.

Local cohomology modules, even over a Noetherian ring R, are typically unwieldy. As such, it is of interest whether or not they have finitely many associated primes. We prove the affirmative in the case where R is a Stanley-Reisner ring, over a field, whose associated simplicial complex is a T-space. (Received December 28, 2016)