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Jennifer Biermann* (jbierman@mtholyoke.edu) and **Adam Van Tuyl**. *Generalized edge and cover ideals*. Preliminary report.

We generalize the notion of the edge ideal to a t -edge ideal whose minimal monomial generators consist of a vertex and t of its neighbors. We study the algebraic properties of the t -edge ideal as well as the combinatorial properties of the associated Stanley-Reisner simplicial complex. (Received September 17, 2014)