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Ben Babcock and **Adam Van Tuyl*** (avantuy1@lakeheadu.ca), Dept. of Mathematical Sciences, 955 Oliver Road, Thunder Bay, ON P7B5E1, Canada. *Revisiting the Spreading and Covering Numbers*. Preliminary report.

The spreading and covering numbers were introduced by Geramita, Gregory, and Roberts in the 1980's to study the Ideal Generation Conjecture. Although they are related to a problem in algebraic geometry, these numbers can be redefined as a problem as about graphs or simplicial complexes. After recalling the Ideal Generation Conjecture, and the connection to the spreading and covering numbers, I will discuss some of my joint work with my summer student to compute some of these numbers (which appear very hard to compute). (Received September 14, 2010)