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Tara S Holm* (tsh@math.cornell.edu), Department of Mathematics, Malott Hall, Cornell University, Ithaca, NY 14853-4201. *Symplectic techniques in algebraic combinatorial geometry.*

I will overview several recent projects that illustrate how techniques from symplectic geometry can shed light on questions arising in algebraic combinatorial geometry. I will touch on joint works (some in progress) with Rebecca Goldin, Megumi Harada, and Takashi Kimura; Susan Tolman; and Reyer Sjamaar. (Received January 22, 2008)