1086-11-309 **Holley Friedlander**, **Derek Garton**, **Beth Malmskog***
(`elisabeth.malmskog@coloradocollege.edu`), **Rachel Pries** and **Colin Weir**. *The a-numbers of Jacobians of Suzuki Curves.*

For $m \in \mathbb{N}$, let S_m be the Suzuki curve defined over $\mathbb{F}_{2^{2m+1}}$. It is well-known that S_m is supersingular, but the p-torsion group scheme of its Jacobian is not known. The a-number is an invariant of the isomorphism class of the p-torsion group scheme. In this talk, I will discuss joint work in which we computed a closed formula for the a-number of S_m using the action of the Cartier operator on H_0.