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Holley Friedlander, Derek Garton and Beth Malmskog*

(elisabeth.malmskog@coloradocollege.edu), 818 Cache La Poudre, Colorado Springs, CO 80903, and **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 .

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