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Jason Gaddis* (gaddisj@miamioh.edu), **Xingting Wang** and **Daniel Yee**. *Cancellation and skew cancellation of Poisson algebras.*

In its algebraic form, the Zariski cancellation problem asks whether an isomorphism of algebras $A[x] \cong B[x]$ implies $A \cong B$. In this talk, I will discuss this problem in the context of Poisson algebras. Our results show that quadratic Poisson algebras in three variables are cancellative. I will also discuss skew Poisson cancellation for Poisson Ore extensions and invariants related to this problem, including the divisor Poisson subalgebra and Poisson stratiform length. This is joint work with Xingting Wang and Dan Yee. (Received September 09, 2021)