Bach Nguyen*, nguyen.bach@temple.edu, and K. Trampel and M. Yakimov. Poisson geometry and invariant of noncommutative algebras.

Using the canonical Poisson bracket on algebras over $K[q^{\pm 1}]$ when specialized at a root of unity, we gave explicit formula for the discriminant of algebras under some mild conditions. Example of these are algebra of quantum matrices and quantum Schubert cell algebras. (Received July 01, 2019)