

# Queen's Algebraic Geometry — Seminar —

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## Abstract

In the talk we will give an introduction to theory of Galois algebras which were recently introduced in our joint work with S. Ovsienko. These are the subalgebras in skew group algebras associated to a Galois extension of the fraction field of a noetherian domain and to a subgroup of its automorphism group. The motivation for the study of such algebras comes from the representation theory in the connection with the problem of character extensions. Typical examples of Galois algebras include the universal enveloping algebra of  $\mathfrak{gl}(n)$  and the generalized Weyl algebras.

Monday, January 29, 2007  
4:30pm – 5:30pm  
115 Jeffery Hall