

# Noether's problem

Asher Auel  
Yale University

Friday, May 11, 2018  
007 Kemeny Hall, 3:30PM  
Tea 3:00PM 300 Kemeny Hall

## Abstract

In 1913, Emmy Noether posed a problem relating the invariant theory of finite groups to Galois theory. In the 105 years since, her problem has generated an incredible amount of diverse research activity, but still remains largely unsolved. I'll introduce Noether's problem, review some of its history and its relationships with other problems in number theory, topology, and algebraic geometry, and also highlight some of its interesting open cases, for example, for the alternating group  $A_6$ .

This talk should be accessible to undergraduates.