Chad Awtrey* (cawtrey@elon.edu). Introducing Galois theory in an introductory linear algebra course.

The goal of this talk is to describe a computational and inquiry-based activity the speaker has used to introduce linear algebra students to the symmetries of roots of polynomials with rational coefficients. Included are discussions of the following: motivating examples, detailed aspects of the activity, implementation suggestions for Mathematica, and subsequent undergraduate research projects the speaker has mentored related to the topic. (Received September 12, 2014)