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Chad Awtrey* (cawtre@elon.edu), **Jim Beuerle** and **Michael Keenan**. *When is a polynomial isomorphic to an even polynomial?*

Let $f(x)$ be an irreducible polynomial with integer coefficients, and let K^f denote the stem field of f ; that is, K^f is the smallest subfield of the complex numbers that contains both the rational numbers and a root of f . If $g(x)$ is irreducible, call f and g isomorphic if K^f and K^g are isomorphic as fields. In this talk, we focus on the question: if the degree of f is even, when is f isomorphic to an even polynomial g ? We discuss a simple method that answers this question and constructs such a polynomial g if it exists. We end with an application to computing Galois groups of polynomials of even degree. (Received September 18, 2016)