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Ryan Shifler* (rmshifler@salisbury.edu). *Universal Groebner Bases of Circulant Polynomial Systems.*

A circulant system of polynomials is a set of polynomials where the first polynomial generates each of the following polynomials by applying a shift to the coefficients. A past undergraduate research project has produced divisibility conditions for a type of circulant system of polynomials to be a Universal Groebner basis. Other types of circulant systems will also be presented that a future undergraduate mentee may explore. (Received September 16, 2017)