

UMW Colloquium Announcement

Department of Mathematics

Robots in Space, Ill-Gotten Stamps, and a Castle in Austria: the Benefits of Solving Polynomials Systems

Presented by

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140 Trinkle Hall**

Abstract: As far as functions go, polynomials seem pretty simple. They arise naturally throughout math, science, and engineering, so people have developed a range of techniques for solving systems of polynomial equations over the past few hundred years. In this talk, we will walk through some of the algebra and geometry underlying polynomial systems (focusing on the fun bits, avoiding the mundane stuff), briefly go through some ideas for solving these problems, and check out some recent applications of the most advanced techniques.

