Bryn Mawr's Distressing Math Collective Presents

Hermite Normal Form and Applications

Presented By: Frank Romascavage, III., Ph.D. 2017

		(3	3	1	4		(3	0	1	1)		(1	-3	0	-1
	A =	0	1	0	0	и	0	1	0	0	77	0	1	0	0
		0	0	19	16	п =	0	0	19	1	U =	0	0	1	-5

## $\begin{pmatrix} 0 & 0 & 3 \end{pmatrix}$ $\begin{pmatrix} 0 & 0 & 0 & 3 \end{pmatrix}$ $\begin{pmatrix} 0 & 0 & 0 & 3 \end{pmatrix}$ $\begin{pmatrix} 0 & 0 & 0 & 1 \end{pmatrix}$

Abstract: An introduction to Hermite Normal Form will be discussed. Computational examples will be provided. Then, we will discuss applications. We will conclude by examining an application to lattice based cryptography.

> When: Wednesday, September 20th at 7pm Where: Park 245 or via Zoom Zoom Info: Meeting ID: 958 0798 2212 Passcode: 792030