

# MATH and PIZZA

## Linear Algebra and Error-Correcting Codes

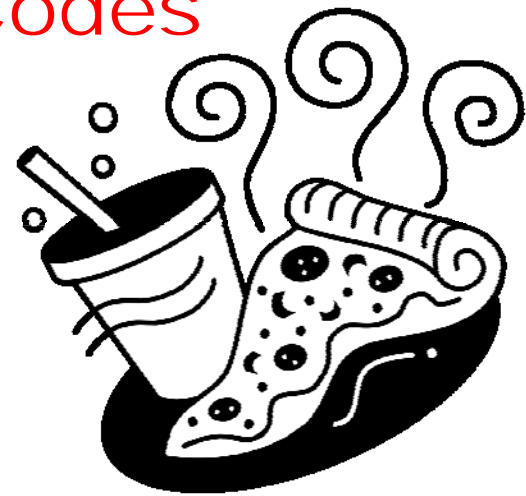
Speaker

Dr. Carolyn Yarnall

Wabash College

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UK Department of Mathematics



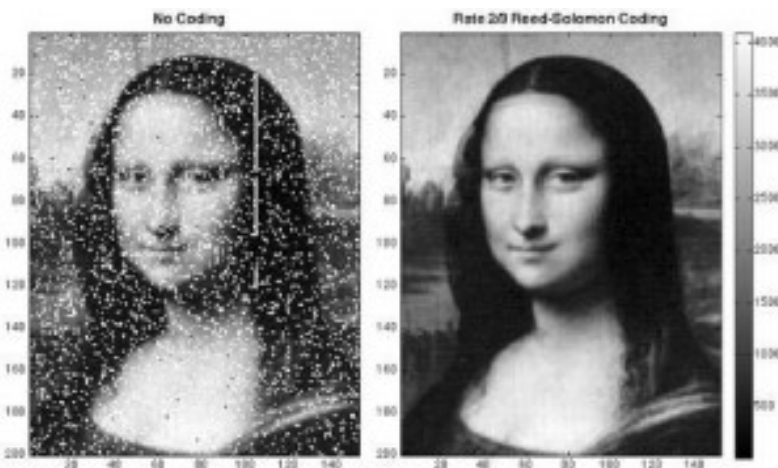
**Date:** Thursday, October 17, 2013

**Time:** 4:00pm - 5:00pm

**Room:** 234, Classroom Building

Abstract:

Encoded data is transmitted every day. While the complete accuracy of such transmissions is obviously desired, it cannot be guaranteed. There are, however, methods for encoding data that can assist with the detection of potential errors. In this talk, we will investigate how linear algebra is used in the context of encoding data in such a way that errors can be detected, and even corrected, upon receiving a transmission.



NASA Laser Beams Sent Mona Lisa  
to the Moon...and Back...Twice!!!

*All students  
with an interest in Mathematics  
are welcome to attend!!*

**UK Math Club**  
[www.math.uky.edu/~mathclub](http://www.math.uky.edu/~mathclub)