

Western Illinois University

Math Club

Wednesday, February 17

Morgan 202

5:30 pm

Expander Graphs and Error Correcting Codes

By Dr. Turkelli

Suppose that Alice wants to send a message to Bob over some noisy communication channel. The problem is that noise in the channel may corrupt the message (by altering certain fraction of the bits that forms the message) so that Bob receives a message that differs from the one sent by Alice. How can we create a coding system so that Bob can recover Alice's message under reasonable assumptions?

In this talk, I will talk about expander graphs and how they are used to construct such a coding system.

Join the Math Club for this talk, and enjoy pizza and refreshments as well.

If you have any questions, please contact Malone Wall at ma-wall@wiu.edu