

Friday, March 3, 2017, 4:10 pm

COLLOQUIUM TALK

Speaker: Lars Ott (EIU)

Old Main 2231

## Hamming and BCH error correcting codes

### Abstract:

Error correcting codes are one of the key techniques used in modern communication. No channel of communication is perfect, errors will always happen therefore error correcting codes make the difference between a message being received correctly or not. If a DVD for example is being scratched it is error correcting codes that allow the player to recover the data lost due to the scratch and play the movie. Hamming codes are some of the oldest error correcting codes and they are perfect to correct one error. BCH codes are build on top of Hamming codes and can be used to correct multiple errors. They are the codes used to keep your DVD playing.

SNACKS IN FACULTY LOUNGE AT 3:30 PM.  
EVERYONE WELCOME (EVEN IF YOU ARE UNABLE TO ATTEND THE TALK)

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