

Friday, October 5, 2018, 4:10 pm

COLLOQUIUM TALK

Speaker: Grant Lakeland (EIU)

Old Main 2231

## An introduction to the Cheeger constant

### Abstract:

The Cheeger constant of a manifold, or graph, is a measure of how “efficiently” one may separate, or disconnect, the object in question. Although not a fine invariant, it turns out to be related to other geometric invariants. In this talk, we’ll compute some examples, and, time permitting, I’ll explain how the Cheeger constant has helped me study certain hyperbolic surfaces.

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

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