

# VCU Discrete Mathematics Seminar

## *The Most Amazing Number in Graph Theory*

**Prof Craig Larson**  
**VCU!**

Wednesday, Oct. 20  
4145 Harris Hall, and Zoom  
1:00-1:50 EDT

Zoom @ <https://vcu.zoom.us/j/92975799914>  
password=graphs2357



In this talk I will introduce Lovasz' theta function, and present Lovasz' own proof of his seminal independence number bound. I will talk about Alpha-Theta (or AT) graphs, the graphs where the independence number equals Lovasz' theta, a very rich class indeed. And I will present two short new proofs that 2 interesting classes of graphs are AT. This is joint work with Hudson Lafayette and Robert Jacobs.

For the DM seminar schedule, see:

<https://www.people.vcu.edu/~clarson/dms.html>