

Colloquium

University of Notre Dame
Department of Mathematics

David Galvin - University of Notre Dame

Speaker: David Galvin

University of Notre Dame

Will give a lecture entitled
Eulerian numbers and TNN matrices

Date: Wednesday, August 31, 2022

Time: 4:00 PM

Location: 231 Hayes-Healy Hall

Zoom URL:



Departmental Tea: Tea in Room 257 (lounge in Hurley Hall) at 3:30 p.m.

Abstract:

The Eulerian numbers arise in algebraic combinatorics, graph enumeration, probability, and other areas. Though studied since 1755 and by now well understood on many levels, some basic questions about Eulerian numbers remain, including a tantalizing conjecture of Brenti from 1996, asserting that the Eulerian matrix is totally non-negative. I'll discuss some recent approaches to Brenti's conjecture. One, due to Chen, Deb, Dyachenko, Gilmore and Sokal, partially settles a broad generalization. The other, due to the speaker and his students Pacurar and Zhang, completely answers a parallel question.