VCU Discrete Mathematics Seminar

Discontinuous aspects of the generalized singular value decomposition

Prof Brian Sutton
(Randolph-Macon College)

Wednesday, Sept. 18
1:00-1:50 EDT

In person! in 4145 Harris Hall, and Zoom @
`https://vcu.zoom.us/j/92975799914`
`password=graphs2357`

The generalized singular value decomposition (GSVD) helps us to compare and contrast the row spaces of two given matrices A and B. In particular, it identifies linear subspaces that are (a) exclusive to A, (b) exclusive to B, and (c) common to A and B. We will illustrate the GSVD through a novel application to low-rank matrix completion, show how the result can be highly sensitive to certain discrete parameters, and suggest a potential open problem related to enumerative geometry and Young's lattice.

For the DM seminar schedule, see:

`https://go.vcu.edu/discrete`