

Session Program

May 18 - 22, 2026



27th Conference of the International Linear Algebra Society (ILAS 2026)

Combinatorial Matrix Theory

Virginia Tech
Blacksburg, VA 24061

Mon, May 18

3:45 PM

Combinatorial Matrix Theory: C

Session | Location: Virginia Tech, Goodwin Hall 135

3:45 - 4:10 PM **The sum of a topological index and its reciprocal index**

Speaker

Wei Gao

4:10 - 4:35 PM **Combinatorial characterization of matrix algebras over finite fields**

Speaker

Nik Stopar

4:35 - 5:00 PM **The Rank-Preserving Transversality Property**

Speaker

Chris Hart

5:00 - 5:25 PM **On the Length of a Multiplicity List of a Graph**

Speaker

Johnna Parenteau

5:25 PM

Tue, May 19

3:45 PM

Combinatorial Matrix Theory: F

Session | Location: Virginia Tech, Goodwin Hall 135

3:45 - 4:10 PM **Frobenius theorem for Cullis determinant**

Speaker

Alexander Guterman

4:10 - 4:35 PM **Geometric and Combinatorial Properties of the ASM Polytope**

Speaker

Elizabeth Dinkelman

4:35 - 5:00 PM **Sparsity of a matrix and its inverse**

Speaker

Bryan Shader

5:00 - 5:25 PM **Spectral bounds for the clique number of a graph**

Speaker

Sudipta Mallik

5:25 PM

Thu, May 21

2:00 PM

Combinatorial Matrix Theory: I

Session | Location: Virginia Tech, Goodwin Hall 135

2:00 - 2:25 PM **A new combinatorial rank concept and its challenges**

Speaker

Geir Dahl

2:25 - 2:50 PM **Hermitian Spectra of Merged Subdivision Mixed Graphs**

Speaker

Enide Andrade

2:50 - 3:15 PM **How to Combinatorially Prove Matrices are Mutually Inverse**

Speaker

Aditya Khanna

3:40 PM