

Session Program

May 18 - 22, 2026



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

Contributed Talks

Virginia Tech
Blacksburg, VA 24061

Mon, May 18

2:00 PM

Contributed Talks: B1

Session | Location: Virginia Tech, Goodwin Hall 155

2:00 - 2:25 PM

Graph Energy Change Under Edge Deletion

Speaker

Wasin So

2:25 - 2:50 PM

On some Graphs determined by their Signless Laplacian spectrum

Speaker

Jitul Talukdar

2:50 - 3:15 PM

Row and Column Equivalence Transversality Properties: Extensions of the Rank-Preserving Transversality Property

Speaker

Joonwon Seo

3:15 PM

2:00 PM

Contributed Talks: B2

Session | Location: Torgersen 1020, Virginia Tech

2:00 - 2:25 PM

Superfast 1-Norm Estimation

Speaker

Victor Pan

2:25 - 2:50 PM

Superfast Low Rank Approximation

Speaker

Victor Pan

3:15 PM

3:45 PM

Contributed Talks: C

Session | Location: Virginia Tech, Goodwin Hall 115

3:45 - 4:10 PM

Convergence of flexible GMRES with and without randomized sketching

Speaker

Lauri Nyman

4:10 - 4:35 PM

New Insights into the Equivalence of Thick and Implicit Restarting Lanczos

Speaker

Kyle Monette

4:35 - 5:00 PM

Domain decomposition method for eigenproblems

Speaker

Antti Hannukainen

5:00 - 5:25 PM

Householder Sets and Relative Pseudospectra

5:25 PM

Speaker
Paul Zachlin

Tue, May 19

11:00 AM

Contributed Talks: D1

Session | **Location:** Virginia Tech, McBryde Hall 113

11:00 - 11:25 AM

Nearest correlation matrices with structure: a dynamical systems approach

Speaker

Eugenio Turchet

11:25 - 11:50 AM

Linear Geometry Insights in the Expectation Maximization Algorithm Convergence

Speaker

Dacian Bonta

11:50 AM - 12:15 PM

Tensor Train-Compressed FDTD Solvers for Electromagnetic Simulations

Speaker

Jonathan Tabares

12:15 PM

11:00 AM

Contributed Talks: D2

Session | **Location:** Virginia Tech, Goodwin Hall 145

11:00 - 11:25 AM

On the properties of solution sets of absolute value equations

Speaker

Shweta Yadav

11:25 - 11:50 AM

A Classification of Seeds via the Minimum Number of Distinct Eigenvalues

Speaker

Lucas Siviero Sibemberg

12:15 PM

2:00 PM

Contributed Talks: E

Session | **Location:** Virginia Tech, Goodwin Hall 135

2:00 - 2:25 PM

Order automorphisms of effect algebras

Speaker

Peter Semrl

2:25 - 2:50 PM

Polynomial Factorization via Matrix Representations

Speaker

Dr Azam Mozaffarikhah

2:50 - 3:15 PM

Pretty good state transfer in Grover walks on abelian Cayley graphs

Speaker

Mr Koushik Bhakta

3:15 PM

3:45 PM

Contributed Talks: F

Session | Location: Virginia Tech, Goodwin Hall 155

3:45 - 4:10 PM

The Smith form of Sylvester and Bézout matrices for zero-dimensional ideals

Speaker

Etna Lindy

4:10 - 4:35 PM

A Unified Framework for Linearizations of Matrix Polynomials in Classical Bases

Speaker

Steve Mackey

4:35 - 5:00 PM

The Polynomial Set Associated with a Fixed Number of Matrix-Matrix Multiplications

Speaker

Gustaf Lorentzon

5:25 PM

Thu, May 21

11:00 AM

Contributed Talks: H

Session | **Location:** Virginia Tech, Torgersen Hall 3100

11:00 - 11:25 AM

A-posteriori error estimates for randomized low-rank approximations

Speaker

Lorenzo Lazzarino

Location

Torgersen Hall 3100

11:25 - 11:50 AM

Randomized algorithms for operator trace estimation

Speaker

Hrvoje Olič

Location

Torgersen Hall 3100

12:15 PM

2:00 PM

Contributed Talks: I1

Session | **Location:** Virginia Tech, McBryde Hall 129

2:00 - 2:25 PM

On the Choice of Sign Defining Householder Transformations

Speaker

Michael Overton

2:25 - 2:50 PM

Fast computation of eigenvalues of periodic CMV matrices

Speaker

David S Watkins

3:40 PM

2:00 PM

Contributed Talks: I2

Session | **Location:** Virginia Tech, Goodwin Hall 115

2:00 - 2:25 PM

Newton's Method for Computing the CP Decomposition

Speaker

DuBose Tuller

2:25 - 2:50 PM

A Superfast Direct Solver of Type-III Inverse Nonuniform Discrete Fourier Transform Problem

Speaker

Mr Jingyu Liu

2:50 - 3:15 PM

Quantum Spectral Methods for Poisson and Heat Equations

Speaker

Giacomo Antonioni

3:40 PM

Fri, May 22

8:45 AM

Contributed Talks: J

Session | Location: Virginia Tech, Torgersen Hall 1040

8:45 - 9:10 AM

A More Robust Streaming Dynamic Mode Decomposition

Speaker

Ela Dimoti

9:10 - 9:35 AM

Fast and accurate solution of the periodic differential matrix Riccati equation

Speaker

Aleksandr Malyshev

9:35 - 10:00 AM

Spectral clustering and accelerated SSO for large and dense problem

Speaker

Jiayu Bian

10:00 AM