Session Program

May 18 – 22, 2026

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

Polynomials, Krylov Methods and Applications

Virginia Tech
Blacksburg, VA 24061

Tue, May 19

2:00 PM

Polynomials, Krylov Methods and Applications: E

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

2:00 – 2:25 PM **Polynomials, Twin BiCG and Approximating the Inverse**

Speaker
Ron Morgan

2:25 – 2:50 PM

Preconditioned log-determinant approximation: one probe vector is almost always enough!

Speaker
Daniele Toni

2:50 – 3:15 PM **Stochastic trace estimation for parameter-dependent matrices**

Speaker
Fabio Matti

3:15 PM

Wed, May 20

10:45 AM

Polynomials, Krylov Methods and Applications: G

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

10:45 – 11:10 AM **Spectral density estimation for random matrices**

Speaker
Charbel Abi Younes

11:10 – 11:35 AM **On block Krylov and matrix polynomials**

Speaker
Michele Rinelli

11:35 AM – 12:00 PM
A Generalized Framework for Orthogonal Rational Functions applied to Rational Approximation

Speaker
Robbe Vermeiren

12:00 PM

Thu, May 21

11:00 AM

Polynomials, Krylov Methods and Applications: H

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

11:00 – 11:25 AM **Computing Functions of Rank-structured or Telescopic Matrices.**

Speaker
Andrea Baleani

11:25 – 11:50 AM

(Block) Lanczos Function Approximation for Quasi-Newton Optimization Algorithms

Speaker
Cooper Simpson

11:50 AM – 12:15 PM

Everything is Vecchia: Unifying low-rank and sparse inverse approximations

Speaker
Robert Webber

12:15 PM

Fri, May 22

8:45 AM

Polynomials, Krylov Methods and Applications: J

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

8:45 – 9:10 AM

Tensor Network Krylov Methods: Algorithms, Theory Gaps, and Open Problems

Speaker
Chris Camaño

9:10 – 9:35 AM

Randomized Row Norm Estimation: Algorithms and Applications

Speaker
Alexander Hsu

9:35 – 10:00 AM

The Matrix-Vector Complexity of Ax=b

Speaker
Raphael Meyer

10:00 AM