

Session Program

May 18 - 22, 2026



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

Numerical Linear Algebra Tools for Model Order Reduction

Virginia Tech
Blacksburg, VA 24061

Mon, May 18

3:45 PM

Numerical Linear Algebra Tools for Model Order Reduction: C

Session | Location: Virginia Tech, Torgersen Hall 1020

3:45 - 4:10 PM **Inverse problems for history-enriched linear model reduction**

Speaker

Arjun Vijaywargiya

4:10 - 4:35 PM

Efficient Streaming Operator Learning for Large-Scale Dynamical Systems

Speaker

Tomoki Koike

4:35 - 5:00 PM

Solving Generalized Lyapunov Equations with guarantees: application to the Model Reduction of Switched Linear Systems

Speaker

Dr Mattia Manucci

5:00 - 5:25 PM

\mathcal{H}_2 model order reduction for Bilinear Quadratic Output Systems

Speaker

Till Peters

5:25 PM

Tue, May 19

11:00 AM

Numerical Linear Algebra Tools for Model Order Reduction: D

Session | Location: Virginia Tech, Torgersen Hall 1020

11:00 - 11:25 AM

Least-squares Rational Approximation Using Riemannian Optimization

Speaker

Petar Mlinarić

11:25 - 11:50 AM

Extensions of data-driven balancing to LQO and QB systems

Speaker

Reetish Padhi

11:50 AM - 12:15 PM

PIRKA: The Iterative Rational Krylov Algorithm for Linear Time-Periodic Systems

Speaker

Sam Bender

12:15 PM

3:45 PM

Numerical Linear Algebra Tools for Model Order Reduction: F

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3:45 - 4:10 PM

On linear matrix equations and the Akhiezer iteration

Speaker

Cade Ballew

4:10 - 4:35 PM

A tangential low-rank ADI method for solving indefinite Lyapunov equations

Speaker

Rudi Smith

4:35 - 5:00 PM

Data-Driven Modal Truncation

Speaker

Dan E. Folescu

5:00 - 5:25 PM

Model Reduction For Optimal Control By Balanced Truncation Of State and Gradient Covariance

Speaker

Emmanuel Ameh

5:25 PM