

Session Program

May 18 - 22, 2026



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

Quantum Numerical Linear Algebra

Virginia Tech
Blacksburg, VA 24061

Mon, May 18

11:00 AM

Quantum Numerical Linear Algebra: A

Session | Location: Virginia Tech, Goodwin Hall 115

11:00 - 11:25 AM

Computational linear algebra from time evolution and noisy inner products

Speaker

Dr Ethan Epperly

11:25 - 11:50 AM

Quantum Linear Algebra: from Optimization to Differential Equation

Speaker

Zeguan Wu

11:50 AM - 12:15 PM

Quantum Linear Algebra for Optmization

Speaker

Mohammadhossein Mohammadisiahroudi

12:15 PM

2:00 PM

Quantum Numerical Linear Algebra: B

Session | Location: Virginia Tech, Goodwin Hall 115

2:25 - 2:50 PM

Quantum Krylov methods with Hamiltonian powers

Speaker

Ryan LaRose

2:50 - 3:15 PM

Quantum Matrix Encodings

Speaker

Liron Mor Yosef

3:15 PM

Tue, May 19

11:00 AM

Quantum Numerical Linear Algebra: D

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

11:00 - 11:25 AM **Efficient Encoding of Semiseparable Matrices in Quantum Circuits**

Speaker

Giacomo Antonoli

11:25 - 11:50 AM **Efficient LCU block encodings through Dicke states preparation**

Speaker

Roel Van Beeumen

11:50 AM - 12:15 PM

Practical block encodings of matrix polynomials that can also be trivially controlled

Speaker

Filippo Della Chiara

12:15 PM