Session Program

May 18 – 22, 2026

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

Where Algebraic Coding Theory and Graph Theory Meet

Virginia Tech
Blacksburg, VA 24061

Mon, May 18

11:00 AM

Where Algebraic Coding Theory and Graph Theory Meet: A

Session | **Location:** Virginia Tech, Goodwin Hall 125

11:00 – 11:25 AM **An Eventown Result for Permutations**

Speaker
Nathan Lindzey

11:25 – 11:50 AM **A graph from the injection metric**

Speaker
Matteo Bertuzzo

11:50 AM – 12:15 PM **Coding theory via graph theory**

Speaker
Michael Tait

12:15 PM

2:00 PM

Where Algebraic Coding Theory and Graph Theory Meet: B

Session | **Location:** Virginia Tech, Goodwin Hall 125

2:00 – 2:25 PM

Graph-based error correction code constructions made practical by modern decoder developments

Speaker
Prof. Ken Duffy

2:25 – 2:50 PM

On the Hamming Weight Distribution of Cyclic Codes with Arbitrarily Many Nonzeroes

Speaker
Shuxing Li

2:50 – 3:15 PM **Hierarchical quasi-cyclic codes from polynomial evaluation codes**

Speaker
Dr Kathryn Haymaker

3:15 PM

Tue, May 19

11:00 AM

Where Algebraic Coding Theory and Graph Theory Meet: D

Session | **Location:** Virginia Tech, Goodwin Hall 125

11:00 – 11:25 AM **Secure Distributed Matrix Multiplication**

Speaker
Rafael D'Oliveira

11:25 – 11:50 AM **Graph Properties of Codes from Dyadic and Quasi-Dyadic Matrices**

Speaker
Dr Kirsten Morris

11:50 AM – 12:15 PM
External codes for multiple unicast networks via interference alignment

Speaker
Felice Manganiello

12:15 PM

2:00 PM

Where Algebraic Coding Theory and Graph Theory Meet: E

Session | **Location:** Virginia Tech, Goodwin Hall 125

2:00 – 2:25 PM **Spectral analysis of linear codes**

Speaker
Valentino Smaldore

2:25 – 2:50 PM **Modern Expander-Based Error-Correcting Codes**

Speaker
Pedro Paredes

3:15 PM