

Session Program

May 18 - 22, 2026



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

Algebraic Invariants of Graphs

Virginia Tech
Blacksburg, VA 24061

Mon, May 18

11:00 AM

Algebraic Invariants of Graphs: A

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

11:00 - 11:25 AM **Connected domination and the v -number of binomial edge ideals**

Speaker

Delio Jaramillo Velez

11:25 - 11:50 AM **The characterization of graphs with two trivial distance ideals**

Speaker

Juan Pablo Serrano Perez

11:50 AM - 12:15 PM **Smith Normal Forms of Graphical Hermite Simplices**

Speaker

Antwon Park

12:15 PM

2:00 PM

Algebraic Invariants of Graphs: B

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

2:00 - 2:25 PM

Generalized chip firing and critical groups of arithmetical structures on trees

Speaker

Joel Louwsma

2:25 - 2:50 PM

The Smith normal form of distance matrices of high dimensional trees

Speaker

Dr Carlos Alfaro

2:50 - 3:15 PM

From Chip Firing to Determinantal Ideals and Back

Speaker

Ralihe Raul Villagran Olivas

3:15 PM

Tue, May 19

11:00 AM

Algebraic Invariants of Graphs: D

Session | Location: Virginia Tech, Goodwin Hall 135

11:00 - 11:25 AM **Spectrum of trees of diameter 4 for the distance Laplacian matrix**

Speaker

Kate Lorenzen

11:25 - 11:50 AM **Advances on Brouwer's Conjecture**

Speaker

Prof. Vilmar Trevisan

11:50 AM - 12:15 PM

A representation theoretical approach to the p-rank of subset incidence matrices

Speaker

Colby Sherwood

12:15 PM