

Session Program

May 18 - 22, 2026



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

The Inverse Eigenvalue Problem of a Graph and Zero Forcing

Virginia Tech
Blacksburg, VA 24061

Tue, May 19

11:00 AM

The Inverse Eigenvalue Problem of a Graph and Zero Forcing: D

Session | Location: Virginia Tech, Goodwin Hall 155

11:00 - 11:25 AM

A unified framework for the Expander Mixing Lemma for graphs and its applications

Speaker

Aida Abiad

11:25 - 11:50 AM

Inverse Eigenvalue Problems for Graphs: The Weighted Laplacian Case

Speaker

Shaun Fallat

12:15 PM

2:00 PM

The Inverse Eigenvalue Problem of a Graph and Zero Forcing: E

Session | Location: Virginia Tech, Goodwin Hall 155

2:00 - 2:25 PM

Sign patterns that require or allow the non-symmetric strong spectral property

Speaker

Kevin Vander Meulen

2:25 - 2:50 PM

Jacobian method and strong properties

Speaker

Jephian C.-H. Lin

2:50 - 3:15 PM

A general strong property for IEP-G

Speaker

H Tracy Hall

3:15 PM

Wed, May 20

10:45 AM

The Inverse Eigenvalue Problem of a Graph and Zero Forcing: G

Session | Location: Virginia Tech, Goodwin Hall 155

10:45 - 11:10 AM **Leaky Forcing of Unicyclic Graphs**

Speaker

Carolyn Reinhart

11:10 - 11:35 AM **Orientable forcing and relationships with linear algebra**

Speaker

Bonnie Jacob

11:35 AM - 12:00 PM **Parameters connected to the strong nullity interlacing property**

Speaker

Mary Flagg

12:00 PM

Thu, May 21

11:00 AM

The Inverse Eigenvalue Problem of a Graph and Zero Forcing: H

Session | Location: Virginia Tech, Goodwin Hall 155

11:00 - 11:25 AM **Resolving Inverse Singular Value Problems with Spoiler Spaces**

Speaker

Caleb Cheung

11:25 - 11:50 AM

The Inverse Symplectic Eigenvalue Problem and Coupled Zero Forcing for Graphs

Speaker

Himanshu Gupta

11:50 AM - 12:15 PM

An inverse eigenvalue problem for structured matrices determined by graph pairs

Speaker

Dr Minerva Catral

12:15 PM

2:00 PM

The Inverse Eigenvalue Problem of a Graph and Zero Forcing: I

Session | Location: Virginia Tech, Goodwin Hall 155

2:25 - 2:50 PM **Tools for Determining the Minimum Rank of a Graph**

Speaker

Mark Hunnell

2:50 - 3:15 PM **Graph Products to Achieve few Distinct Eigenvalues**

Speaker

Mark Kempton

3:15 - 3:40 PM **A Graphical Approach to Isospectral Unfoldings**

Speaker

Dallin Seyfried

3:40 PM