

Submittee: Steve Kirkland

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Title: Western Canada Linear Algebra Meeting

Event Type: Conference-Workshop

Location:

University of Manitoba, Winnipeg.

Dates:

14-15 May, 2016.

Topic:

Linear algebra and related fields.

Methodology:

Three invited one hour lectures, 15 contributed 30 minute talks.

Objectives Achieved:

WCLAM 2016 continued its tradition of high quality talks presented in an atmosphere that is especially welcoming to emerging researchers. In particular, seven of the fifteen contributed talks were given by graduate students and postdoctoral fellows.

Organizers:

Fallat, Shaun, Department of Mathematics and Statistics, University of Regina.

Farenick, Doug, Department of Mathematics and Statistics, University of Regina.

Kharaghani, Hadi, Department of Mathematics and Computer Science, University of Lethbridge.

Kirkland, Steve, Department of Mathematics, University of Manitoba.

Lancaster, Peter, Department of Mathematics and Statistics, University of Calgary.

Tsatsomeros, Michael, Department of Mathematics and Statistics, Washington State University.

van den Driessche, Pauline, Department of Mathematics and Statistics, University of Victoria.

Speakers:

Invited Speakers:

Rajesh Pereira, Department of Mathematics and Statistics, University of Guelph. Talk title - Doubly Stochastic matrices and majorization.

Rachel Quinlan, School of Mathematics, Statistics and Applied Mathematics, National University of Ireland Galway. Talk title - Adventures in nilpotent matrix spaces.

Kevin Vander Meulen, Department of Mathematics, Redeemer University College. Talk title - Spectral analysis of matrix patterns.

Contributed Speakers:

Steve Butler, Department of Mathematics, Iowa State University. Talk title - Some comments on cospectral graphs for the normalized Laplacian.

Louis Deaett, Department of Mathematics and Computer Sciences, Qinnipiac University. Talk title - Minimum rank for circulant graphs and matrices.

Doug Farenick, Department of Mathematics and Statistics, University of Regina. Talk title - A multivariable analogue of Ando's theorem on the numerical radius.

Colin Garnett, School of Mathematics and Social Sciences, Black Hills State University. Talk title - Combinatorial conditions that preclude SAPpiness.

Keivan Hassani Monfared, Department of Mathematics and Statistics, University of Calgary. Talk title - Some inverse eigenvalue problems for graphs.

Nathaniel Johnston, Department of Mathematics and Computer Science, Mount Allison University. Talk title - Some linear algebra questions arising from quantum coherence.

Rajesh Kannann, Department of Mathematics, University of Manitoba. Talk title - Some properties of semipositive matrices.

Jephian C.-H. Lin, Department of Mathematics, Iowa State University. Talk title - Using a new zero forcing process to guarantee the Strong Arnold Property.

Peter Loly, Department of Physics and Astronomy, University of Manitoba. Talk title - Matrix norms of angular momentum matrices in quantum mechanics.

Xavier Martinez-Rivera, Department of Mathematics, Iowa State University. Talk title - Classification of families of pr- and epr-sequences.

Samir Raoua, Department of Mathematics and Statistics, University of Regina. Talk title - Pseudospectra and the behavior of non-normal matrices.

John Sinkovic, Department of Combinatorics and Optimization, University of Waterloo. Talk title - The inertia bound is not always tight.

Kris Vasudevan, Department of Mathematics and Statistics, University of Calgary. Talk title - Signed graph Laplacians: From small-world to hierarchical modular graphs.

Guanglong Yu, Department of Mathematics and Statistics, University of Regina. Talk title - Some extremal values on graph Q-spectra.

Xiaohong Zhang, Department of Mathematics, University of Manitoba. Talk title - Bounds on fidelity of state transfer with respect to errors.

Links:

<http://server.math.umanitoba.ca/~kirkland/wclam>

File Uploads:

Additional Upload 1: http://www.pims.math.ca/files/final_report/WCLAM_2016_Program.pdf
