Submittee: Douglas Farenick Date Submitted: 2014-07-03 10:37 Title: Western Canada Linear Algebra Meeting Event Type: Conference-Workshop

Location:

University of Regina

Dates:

May 10-11, 2014

Topic:

Advances in the theory and applications of linear algebra and related fields

Methodology:

This meeting was the 12th in a series of biennial meetings that have been held at various sites throughout Western Canada, beginning with an inaugural meeting at the University of Regina in 1993. // WCLAM provides an opportunity for researchers and mathematicians in linear algebra and related fields to meet, present accounts of their research, and to hold informal discussions. // Although WCLAM has a regional base, the meeting attracts a number of national and international participants. // WCLAM enjoys a reputation for its welcoming atmosphere and its high quality scientific program. // Young mathematicians (graduate students, postdoctoral researchers, early career faculty members) had a fertile environment in which to present their results and engage in discussions with experienced experts in the area. //

Organizers:

Fallat, Shaun, University of Regina // Farenick, Douglas, University of Regina // Kharaghani, Hadi, University of Lethbridge // Kirkland, Steve, University of Manitoba // Lancaster, Peter, University of Calgary // Tsatsomeros, Michael, Washington State University // Van Den Driessche, Pauline, University of Victoria //

Speakers:

Featured Speakers: Roger Horn (U. Utah), Simultaneous Unitary Similarity and Congruence // Joel Friedman (U. British Columbia), Sheaves on Graphs, L2 Betti Numbers, and Applications // Mijta Mastnak (Saint Mary's U.), Semitransitive Collections of Matrices // Maya Mincheva (Nothern Illinois U.), The Jacobian Matrix and Multistationarity in Biochemical Reaction Network Models // Contributed Speakers: Colin Garnett (Black Hills State U.), Integrally Normalizable Matrices and Zero-nonzero Patterns // Daniel May (Black Hills State U.), ABCs of Mutually Unbiased Bases // Rajesh Pereira (U. Guelph), Old and New Problems for Doubly Stochastic Matrices and their Generalizations // Peter Lancaster (U. Calgary), Spectral Analysis for Matrix Polynomials with Symmetries // Lixing Han (U. Michigan - Flint), Stenger's Sinc Matrix Conjecture // Tin-Yau Tam (Auburn U.), Geometric Means for Positive Definite Matrices and its Generalization // Louis Deaett (Quinnipiac U.), Cycles in the Graph of a Positive Semidefinite Matrix with Low Rank // Minerva Catral (Xavier U.), Representations for the Drazin Inverse of Block Cyclic Matrices // Jandranka Micic (Croatia), Generalization of Levinson's Inequality for Hilbert Space Operators // MingHua Lin (U. Victoria), Positive Semidefinite 3-by-3 Block Matrices // Alexey Popov (U. Waterloo) Semigroups of Partial Isometries // Peitro Paparella (William and Mary), Matrix Roots of Irreducible, Imprimitive Nonnegative Matrices // Jane Breen (U. Manitoba), Stationary Vectors of Stochastic Matrices Subject to Combinatorial Constraints // Sarah Plosker (Brandon U.), Using Vector Spaces of Matrices to Study Quantum Measurements // Posters: Garrett Culos (U. Victoria), Application of Sign Patterns that Require Hn Michael Cavers & Kris Vasudevan (U. Calgary), The Kuramoto Model on Undirected and Directed Graphs

Links: http://uregina.ca/~abstsubm/index.html

Comments / Miscellaneous:

Among the principal objectives of the meeting were to promote and foster the development of research undertaken by young mathematicians, and by all accounts these objectives were amply fulfilled.

File Uploads:

Additional Upload 1: http://www.pims.math.ca/files/final_report/WCLAM-program14.pdf