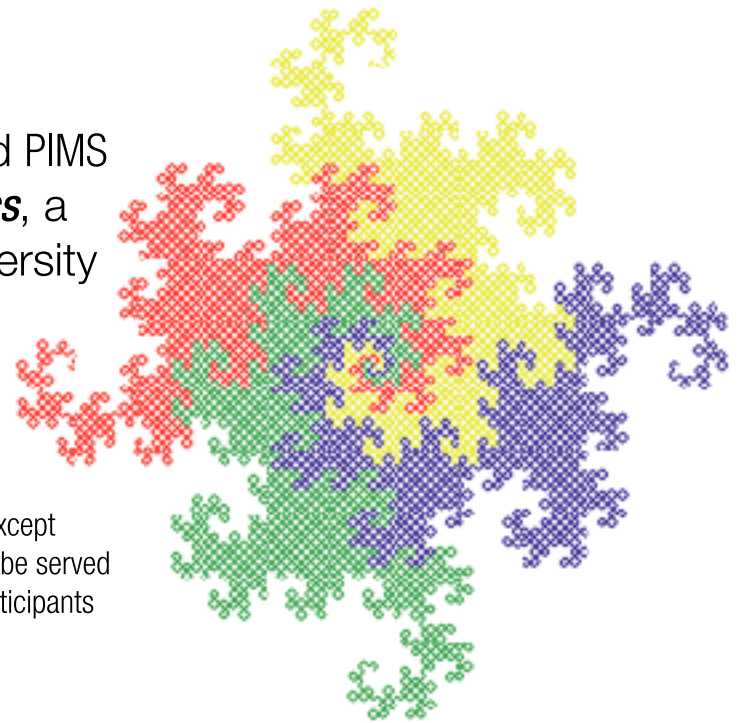# cecm

Summer Meeting *2004*

Computational Mathematics

July 27, 2004 · Rooms 126 and 114 · Halpern Centre · SFU Burnaby Campus

Centre for Experimental and Constructive Mathematics, Maplesoft and PIMS are pleased to present *CECM 2004 Computational Mathematics*, a summer conference hosted by CECM at Simon Fraser University in the Halpern Centre.

Registration

Registration is required. A registration fee of $50 per participant will be charged to all participants except invited speakers and invited guests. The registration fee includes the cost of a light lunch which will be served in the Halpern Centre. Students may wish to ask their supervisor to pay for their registration fee. Participants who are unable to pay should contact Michael Monagan.

Morning Session

08:30-09:00
Registration (Refreshments will be served.)

09:00-10:00
George Labahn School of Computer Science · University of Waterloo
Solving linear ODEs having coefficients which are periodic or doubly-periodic functions

10:00-11:00
Roman Nedela Slovak Academy of Sciences
Regular maps – combinatorial objects relating different fields of mathematics

11:00-11:30
Coffee break

11:30-12:30
Michael Monagan Centre for Experimental and Constructive Mathematics · Simon Fraser University
Allan Wittkopf Maplesoft
What's new in Maple: Release 9.5

Afternoon Session

12:30-13:30
Catered lunch

13:30-14:30
Victor Flynn Department of Mathematical Sciences · University of Liverpool
Rational points on curves

14:30-16:00
Poster and demo session
(Refreshments will be served at 15:00.)

16:00-17:00
Richard Crandall Center for Advanced Computation · Reed College
Epizootic waves

17:00-17:10
Poster prize presentation

18:00
Social event

Poster and Demo Session

Eric Chiang Graceful labeling of paths and 3-branch-trees

Jennifer de Kleine, Michael Monagan and Allan Wittkopf Zippel's Algorithm extended for the non-monic case

Mohammad Ali Ebrahimi New visuals for the direction fields in Maple

Jeff Farr and Roman Pearce A Gröbner Walk implementation in Maple

Greg Fee and Michael Monagan Rational number reconstruction

Ron Ferguson A root finder for polynomials with small Mahler's measure

Simon Lo Linear algebra over finite fields and generic domains in Maple

Russell Luke Dynamics of generalizations of the AGM continued fraction of Ramanujan

Benjamin Ong Level set methods for adaptive grids

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register at www.cecm.sfu.ca/events

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PIMS

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