



The London Mathematical Society in association with the EPSRC Network on *Numerical Algorithms and High Performance Computing*

Verification and Numerical Algorithms

Tuesday 13 November, 10.30 - 16.30

De Morgan House, 57-58 Russell Square, London, WC1B 4HS. (Nearest tube: Russell Square)



The aim of the colloquium is to provide an opportunity for dialogue between researchers working in the Mathematics of Numerical Algorithms and Computer Scientists working in Formal Verification of numerical programs. The programme of talks will interest both Graduate Students and more established researchers undertaking work in these areas, and the event will provide an occasion for informal networking and the exploration of connections between Numerical Analysis and Formal Verification. All interested Mathematicians and Computer Scientists are warmly encouraged to participate in this unique colloquium.

Jean-Michel Muller (ENS Lyon)

Proof of Properties in Floating-Point Arithmetic

David Monniaux (CNRS/VERIMAG) Formal verification of safety-critical software

Daniel Kroening (University of Oxford) Deciding Floating-Point Logic with Systematic Abstraction

George A. Constantinides (Imperial College London) Numerical Algorithms in Hardware

Full abstracts and timetable for the day can be found at: http://www.lms.ac.uk/content/computer-science-day

The Computer Science Colloquium is part of an LMS initiative of activities at the interface between Mathematics and Computer Science.

To register, please contact Duncan Turton (<u>computerscience@lms.ac.uk</u>) The day is free for students and £5 for all others which is payable on the day. A sandwich lunch will be provided. Limited funds are available to help with students' travel costs. Further details are available from Duncan Turton at the Society (<u>computerscience@lms.ac.uk</u>)

The London Mathematical Society is the UK's learned society for mathematics. Founded in 1865 for the promotion and extension of mathematical knowledge, the Society has a membership of over 2300 drawn from all parts of the UK and overseas. Its principal activities are the organisation of meetings and conferences, publication of journals and books, provision of financial support for mathematical activities, and contribution to public debates on issues related to mathematics, research and education. London Mathematical Society, De Morgan House, 57-58 Russell Square, London WC1B 4HS.

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