



WEBINAR ON SEMIGROUPS AND APPLICATIONS

Institute of Mathematics Research and Training (IMRT)

Trivandrum, Kerala

<http://www.imrt.org.in>

K. S. S. Nambooripad Endowment Lecture



on January 5th 2022, 2:00 PM (IST)

Inaugural Address

Dr. Kalyan Chakraborty

Director, KSCSTE-Kerala School of Mathematics, Kozhikode, Kerala

Academic Session–1 (2.30 PM)

Prof. Mark V Lawson

School of Mathematical & Computer Sciences

Heriot-Watt University, UK

Topic : *Groupoids in inverse semigroup theory*

Academic Session–2 (4.00 PM)

Prof. Apoorva Khare

Indian Institute of Science

Bangalore

Topic : *Groups with norms: from word games to a PolyMath project*

Please register on or before 2nd January, 2022. No registration fee. Click here 

Due to technical reasons we are constrained to accommodate only hundred participants.

IMRT

The Institute of Mathematics Research and Training(IMRT) is aimed at promoting research orientation among teachers and students in Mathematics. Workshops, seminars and discussions are organised in collaboration with Universities, Colleges and other Institutions on topics connected with Mathematics education and research. From 2015 onwards IMRT has been conducting series of Workshops under the title *Mathematics Enrichment Program for Graduate Students* with special emphasis on problem solving.

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K. S. S. Nambooripad

Professor K. S. S. Nambooripad passed away on 4th January 2020. He did pioneering work on the structure of regular semigroups. His breakthrough was the abstract characterization of the set of idempotents of a regular semigroup as what he termed a *biordered set*. He later characterized the class of principal

left and right ideals of a regular semigroup abstractly as what he called *normal categories* and described the structure of regular semigroups in terms of *cross connections* between them. He also worked on the applications of these ideas to other branches of mathematics, such as linear algebra and operator theory.

Mark V Lawson



Mark V. Lawson is a Professor in the Department of Mathematics at Heriot-Watt University. He has published more than 70 papers and has given seminars on his research work both at home and abroad. His research interests focus on algebraic theory of semigroups and its applications. In 2017, he was awarded the Mahoney-Neumann-Room prize by the Australian Mathematical Society. Lawson has authored the following books : Inverse Semigroups: The Theory of Partial Symmetries, Finite Automata, Algebra & Geometry: An Introduction to University Mathematics, and A First Course in Logic.

Apoorva Khare

Apoorva Khare is an Associate Professor of Mathematics at IISc Bangalore. After his



B.Stat. in ISI Kolkata and MS+PhD at the University of Chicago, he held the following positions : a postdoc at UC Riverside, a Lecturer at Yale, and a Research Associate at Stanford before returning to India. He is currently also a Ramanujan Fellow (SERB) and a SwarnaJayanti Fellow (DST+SERB). He is interested in matrix analysis and positivity, representation theory, and combinatorics/ discrete mathematics.

Kalyan Chakraborty



Kalyan Chakraborty is the Director of KSoM Kerala School of Mathematics, Kozhikode, Kerala. After his D. Phil. Mathematics from Harish-Chandra Research Institute he held the following positions: postdoc at IMSC Chennai, Queen's University Canada, HRI, Allahabad. His area of interest is in pure Mathematics and Number Theory.