NITheCS

National Institute for
Theoretical and Computational Sciences

NITheCS MINI-SCHOOL:

Vector lattices with a view to applications in stochastic processes

Prof Bruce Watson

(University of the Witwatersrand, CoE-MaSS and NITheCS)

Wed 10, 17 & 24 Apr & Thurs, 2 May 2024 | 14h00 SAST

Attend online

--- A certificate of attendance will be awarded to registrants who attend all four lectures ---

ABSTRACT

This mini school introduces the foundations of vector lattices.

The selection of material chosen for these lectures is influenced by the end game – posing stochastic processes in a vector lattice setting. These lectures are of an introductory nature, assuming no prior knowledge of vector lattices. We do, however, take examples from various area of mathematics and a knowledge of either probability or measure theory might be beneficial, but is not essential.

BIOGRAPHY

Bruce completed his PhD on multiparameter inverse spectral problems, under the supervision of Prof Melvin Faierman at University of the Witwatersrand (WITS). Following this he was a Pacific Institute of Mathematics Postdoctoral Fellow at the University of Calgary.

He has researched in the areas of spectral theory of differential operators, inverse spectral theory, stochastic processes and Riesz space theory. He has supervised around nine MSc and nine PhD students. He was head of the School of Mathematics at WITS for seven years and is currently the Interim Director of CoE-MaSS.

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