

Abstract

MFO-RIMS Tandem Workshop:

Nonlocality in Analysis, Probability and Statistics

Dates:

20 – 26 March 2022 (Code: 2212a)

Organizers:

Krzysztof Bogdan, Wrocław
Arturo Kohatsu-Higa, Kyoto
Xavier Ros-Oton, Barcelona
Rene Schilling, Dresden

In recent years there has been considerable interest in nonlocal operators in the fields of analysis, probability theory and statistics. Although all these disciplines often look at similar problems, the developments have been separate and in parallel. The aim of this workshop is to bring together leading researchers from these disciplines, in order to alert the different communities about the problems, methods, and progress achieved separately, and to bridge the gap caused by different background and different mathematical terminology. This workshop addresses, in particular, researchers in the fields of PDEs, function spaces, fractional calculus, pseudo differential operators, stochastic processes (Markov, Feller, Lévy), Dirichlet forms, and statistics of stochastic processes.