

# Preface

This volume owes its creation to the conference “Stochastic and Infinite Dimensional Analysis” held at ZiF, Bielefeld, on June 2013 for the 75th birthday of the distinguished scientist Prof. Ludwig Streit. This event was organised to celebrate his long ongoing work in these fields, to which he contributed as a forerunner. This publication collects papers, mostly novel research, spanning the whole range of his interests and activities in the past and future. A sizeable number of the contributions do not stem from participants to the conference, and some of the contributions are only vaguely related to the presentations given during the conference.

This book stands out as it combines the many guises in which infinite dimensional analysis can occur like white noise analysis, Malliavin calculus, harmonic analysis, fractional Brownian motion and operator theory. The different guises stem from different viewpoints motivated by particular applications. Fittingly, this collection gathers applications ranging from networks, stochastic partial differential equations, superprocesses, stochastic dynamics on trees, moment problems, and polymer physics to quantum field theory. They play a prominent role as test bed for the mathematics as well as inspiration for the theory.

Prof. Ludwig Streit often recalls when he met S. Ulam and heard firsthand the citation given at the beginning of this volume. This phrase may have made a strong impression on Prof. Ludwig Streit since it actually perfectly summarises his working style. The style of this volume can be considered in this spirit.

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