## Alexander Belton (Lancaster)

From repeated interactions to quantum and quasifree stochastic calculus

## Abstract

We will introduce a toy quantum-mechanical model analogous to a classical random walk, and explain how this model, in a suitable limit, gives rise to stochastic processes described by integrals against quantum noises. We will further explain how, if the toy model is made slightly more realistic, the processes which arise are now driven by quasifree noises.