Minisymposium 3 - Stochastic Processes with Jumps: Theory and applications

Some strange operators in the theory of multi-parameter processes

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In this talk we discuss (pseudo-)differential operators which might give rise to multi-parameter (not necessarily Markovian) stochastic processes. The class of operators includes those arising in the theory of multi-parameter Markov processes but goes far beyond. The operators under considerations (even in case of local, i.e. differential, operators) do not belong to any standard class but they emerge naturally within our context. The talk is based on work in progress with A. Potrykus.