

# Continuity of a quantum stochastic process

Andrzej Łuczak

We show how the classical notion of continuity with probability one of a stochastic process may be generalized to quantum stochastic processes. It turns out that this generalization plays in the quantum case a role similar to its classical counterpart. In particular, for quantum martingales ‘continuous with probability one’ formulae for the quadratic variation process and the cross-variation process, analogous to the classical ones, hold true.