

# One-Parameter Groups Involving Bogoluibov and Quantum Girsanov Transforms

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## Abstract

We study a Lie group of one-parameter transformations acting on white noise functionals associated with the Lie algebra generated by the scalar, annihilation operator, creation operator, conservation, generalized Gross Laplacian and its adjoint operator. The one-parameter groups are involving the Bogoliubov and quantum Girsanov transforms, Fourier-Gauss and Fourier-Mehler transforms and Weyl transform. We examine the unitarity conditions for the one-parameter groups. This talk is based on a joint work with Un Cig Ji.