

Wick symbol of evolution operators for operators acting on the Fock space or on the Wiener space

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In the context of an infinite dimensional analogue of the Weyl pseudodifferential calculus, we have to work with the Fock space and with the Wiener space. This talk aims at giving a characterization, in terms of the Fock space, of a concept (a set of test functions) initially defined on the Wiener space.

The second part is concerned with the explicit computation of the Wick symbol of evolution operators.

More precisely, we consider a multiplication operator on a space of square integrable functions. Its second quantization is a self-adjoint operator (on the Fock space) and remains self-adjoint if one adds a Segal field. Both operators give rise to groups of unitary operators. We compute the Wick symbols of operators of this kind.

Orateur: JAGER, Lisette (Université de Reims Champagne-Ardennes)