

MATHEMATICS SEMINAR
of the
UNIVERSITY OF LUXEMBOURG
in cooperation with the
LUXEMBOURG MATHEMATICAL SOCIETY

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15 January 2008, at 4:30 pm

Room 3.04 bs

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Star-exponentials and complex symplectic manifolds

Abstract

In the framework of formal deformation quantization, the notion of star-exponential is a rather singular object and does not admit a general definition. In this talk I will present a construction of a new sheaf of algebras W on the cotangent bundle of a complex manifold, in which the star-exponentials make sense. The algebra W is an analytic deformation extending the construction by M. Sato, M. Kashiwara, and T. Kawai of the sheaf of microlocal operators, and is obtained by imposing suitable growth conditions on the symbols.

Please note that this talk will be given at 4:30 and not as usually at 5 pm.