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In this talk, I will present a construction of a sheaf of deformation quantization algebras  $W$  on a the cotangent bundle of a complex manifold that contains the exponentials of micro-differential operators of order zero.

The algebra  $W$  is an analytic deformation extending the construction by M. Sato, M. Kashiwara, and T. Kawai of the sheaf of micro-local operators, and is obtained by imposing suitable growth conditions on the symbols.

This is a joint work with Pierre Schapira. (Received September 02, 2009)