George Marinescu: Toeplitz operators on symplectic manifolds

Abstract: Quantization is a procedure that leads from a classical dynamical system to an associated algebra whose behavior reduces to that of the given classical system in an appropriate limit. In the usual case, the limit involves Planck's constant $\hbar$ approaching zero. We will describe the Berezin-Toeplitz quantization on symplectic manifolds making use of the full off-diagonal asymptotic expansion of the Bergman kernel. This is a joint work with Xiaonan Ma.