

Noncommutative Kähler Manifolds and their Fock representations

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We introduce some kind of Fock representations of noncommutative Kähler manifolds and give their explicit expressions. In deformation quantization of Kähler manifolds with separation of variables formulated by Karabegov. Based on the theory, we construct the representation of noncommutative Kähler manifolds and give a dictionary to translate between the Fock like representations and functions on noncommutative Kähler manifolds concretely.