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Kaehler quantization and entropy

In geometric quantization, Lagrangian states or coherent states on a symplectic manifold M are sections of the prequantum line bundle on M determined by an appropriate submanifold of M . What are the entanglement properties of these states ? Or, to pose a different question, is the entanglement entropy (a concept from quantum information theory) a useful invariant ? I will report on recent joint results with A. Kazachek and with M. Saikia.