Abelian Lagrangian Algebraic Geometry and ALAG-quantization

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We discuss an "infinite dimensional algebraic geometric" aproach to the moduli space of Lagragian cycles. It is based on the following series of observations. Each real symplectic manifold M equipped with pequantization data and $Mp^{\mathbb{C}}$-sructure produces an infinite dimensional Kähler manifold $\mathcal{B}$, of half weighted Bohr-Sommerfeld cycles of fixed volume. This manifold admits a canonical prequantization equipment. The Poisson algebra of smooth functions on the initial symplectic manifold M is naturally represented (as a Poisson subalgebra) in the Poisson algebra of smooth functions on this infinite dimensional manifold $\mathcal{B}$. A complex polarization of M gives a canonical holomorphic map from $\mathcal{B}$ to the projective space of quantum states. This map has surjective differentials.