

Towards a comparison of Geometric Quantization with Deformation Quantization

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E. Hawkins proposed a scheme for geometric quantization of a Poisson manifold by means of deformation to normal cone of a symplectic groupoid, where the C^* -algebra involved is twisted by polarization. We report on work in progress with P. Antonini, F. Bonechi, N. Ciccoli and V. Zenobi, where we review these ideas using a natural filtration. We redefine the notion of polarization allowing to include singular examples. The upshot of this project is to eventually provide a framework allowing to compare geometric quantization with deformation quantization.

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