

# Review of: "Fidelity of quantum blobs"

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In the article "Fidelity of quantum blobs" the author attempts to address the measurement problem with tools of symplectic topology to distinguish volumes of different quantum states and their overlaps. In this paper the reason for the inability to measure precisely lies in the noncommutativity of quantum operators. In this context the author seems to ignore the well established framework of geometric quantization, where the Hilbert space is a direct sum of representations of the underlying quantum symmetry algebra. For example the angular momentum in three dimensions is quantized by acknowledging the phase space as the Riemann sphere which is a complex projective space and the Hilbert space as the space of global sections of a holomorphic line bundle over the sphere. The operators on this space satisfy the same commutation relation as the generators of  $SU(2)$ , which is a non-abelian group. The author should address these frameworks.