Comparing Different Proposal of Quantum Entanglement Through Geometric Methods

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ABSTRACT

Presently, a very important aspect in quantum information is properly define quantum entanglement measures. The many different possibilities in the literature demonstrates that a definitive answer about how to properly define such quantity is still an open problem. Using a very concrete way to define quantum entanglement (in the coefficient space of the eigenvector expansion) we use geometric methods to compare different definitions. This allow us to identity positive and negative features of the most popular measures in the literature.