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Squeezed coherent states and a measure of entanglement

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Squeezed coherent quantum states are defined as eigenstates of a linear combination of ladder operators associated to a given system. They depend on the coherence and squeezing parameters. We present different types of states which generalize the usual coherent states of the harmonic oscillator. We describe some of their properties linked with quasi classicality and we compute the entanglement created by those states. Such quantum entanglement is generated using a beam splitter and the linear entropy is used as a measure of it. We thus show how the variation of coherence and squeezing parameters affects the measure of entanglement.

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