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for Theoretical Physics**



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ENTANGLEMENT NEGATIVITY AND QUANTUM FIELD THEORY

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Abstract:

The study of the entanglement content of many body quantum systems has prompted an intense research activity at the crossroad of different disciplines such as statistical mechanics, quantum information, condensed matter, and quantum field theory. In this talk I will present systematic methods to calculate the entanglement negativity in the ground state of 1+1 dimensional quantum field theories, with particular emphasis on conformal invariant ones.