

Entanglement Entropy in the Quadratic Sector of Gribov-Zwanziger Theory

In this work, we discuss the concept of entanglement entropy and its application to the realm of quantum field theory, with a focus on the quadratic sector of the Gribov-Zwanziger Theory. We obtained a general expression for the entanglement entropy of this theory by using the Euclidean formalism approach. We observed and interpreted that the restriction to the Gribov region affects the entanglement of the field configurations of the two considered regions.

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