

# Chern-Simons quantum mechanics and quantum entanglement

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In this talk I will introduce Topological Quantum Field Theories (TQFT) and place the Chern-Simons theory in the context of the general definition of TQFT. I will then explain how Chern-Simons theory can be useful to understand fundamental aspects of quantum mechanics, such as quantum entanglement. I will discuss classification of quantum entanglement and its natural measures from the point of view of the Chern-Simons quantum mechanics. I will also discuss special properties of the semiclassical states in this theory.