

# **Teemo Ojanen**

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**Title:** Entanglement, fluctuations, and topology

### **Abstract:**

I will give a brief introduction to entanglement in many-body systems and basic concepts such as reduced density matrices, entanglement entropy and entanglement spectrum. These concepts are illustrated in the context of condensed matter and topological systems. Then I will discuss how elusive entanglement properties, which typically defy direct observation, could be accessed through fluctuations of observables.