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Locality and causality in the Aharonov-Bohm effect

Thursday, 10 October 2019 14:20 (40 minutes)

I will expose a local, fully quantum-field-theory compliant model of the Aharonov-Bohm effect, where the Aharonov-Bohm phase is gradually and locally acquired. I will explore the theoretical and experimental implications of this model, especially in regard to locality and causality in quantum theory.

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Session Classification: Investigating the fundamental properties of physics