

Physics Colloquium

Monday, September 9, 2019 / Pupin Hall Theory Center, 8th Floor / 12:30 PM

Lunch will be available for attendees

“Quantum Information Science and High Energy Physics at the Large Hadron Collider”



The relationship between quantum entanglement and an observed thermalization in particle production - even in the Higgs boson channel - at the Large Hadron Collider (Rev. D 98, 054007 (2018)) will be presented. The considerable amount of collected data at 13 TeV proton-proton collision energy enables systematic investigation of this initial study and additional links between Quantum Information Science and particle physics at the energy frontier. Near-term future studies will also be presented.

Keith Baker, Yale