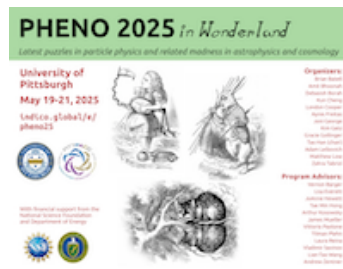


Phenomenology 2025 Symposium



Contribution ID: 185

Type: **not specified**

Quantum Entanglement is Quantum: ZZ Production at the LHC

Tuesday 20 May 2025 15:00 (15 minutes)

We discuss systematic limitations of entanglement measurements in particle production processes at collider experiments. Using the example of $pp \rightarrow ZZ$ production at the Large Hadron Collider, we study the distinct contributions that arise at leading and higher orders, which can affect the interpretation of the system as a two-qutrit ZZ system.

Mini Symposia (Invited Talks Only)

Plenary (Invited talks only)

Author: NAVARRO, Alberto (Oklahoma State University)

Presenter: NAVARRO, Alberto (Oklahoma State University)

Session Classification: Electroweak

Track Classification: Electroweak, Higgs, and Top Quark Physics