

## Resonances in $t\bar{t}$ with quantum observables

*Friday 8 March 2024 15:35 (35 minutes)*

Resonances in  $t\bar{t}$  with quantum observables [2401.08751]

The recent observation of entanglement between top and anti-top quarks at the LHC opens the way to interpreting collider data with quantum information tools. In this talk I will investigate the relevance of quantum observables in the top sector, for searches of resonances coming from hidden SM effects or new physics. I will show how QM-inspired observables provide complementary information and, in several notable cases, also the additional leverage necessary to detect new effects.

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**Session Classification:** Talks