

Fabio Maltoni – HEP seminar April 14, 2026  
(Università di Bologna/Université di Louvain/CERN)

“Quantum Observables for Collider Physics: Exploring Higher-Order Effects”

Measuring and interpreting quantum correlations in collider data provides a novel and stimulating perspective on fundamental interactions. In this talk, I review the current theoretical and experimental status of this emerging programme. In particular, I focus on ongoing efforts to incorporate higher-order corrections into our predictions and to interpret them within the framework of quantum information concepts.