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Beyond Kinematics for Optimal Hadronic Top Quark Polarimetry I

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Spin correlations in top-quark pair production have been recently used to measure Entanglement at high energy. In this context, the semileptonic channel may play an important role due to its large cross section. However, the unambiguous identification of the hadronic top decay products that correlated the most with the top quark polarization is challenging. In this talk, we introduce and use jet flavor tagging to significantly improve spin analyzing power in hadronic decays beyond exclusive kinematic information employed in previous studies.

Mini Symposia (Invited Talks Only)

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