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Measurement of energy correlators inside jets

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Abstract: The investigation of jet production and the jet substructure in proton-proton collisions at the Large Hadron Collider holds great importance. They serve as vital tools for conducting precise tests of Quantum Chromodynamics, improving the understanding of proton structure, and also provides essential details to study physics beyond the Standard Model. Here, we present the latest jet measurements using data from the Compact Muon Solenoid, from which the strong coupling constant is derived.

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