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Measurable Expressions of Emergent Hadron Mass

The vast bulk of visible mass emerges as a consequence of nonperturbative dynamics within the strong interaction sector of the Standard Model. The past decade has revealed the three pillars of this emergent hadron mass (EHM); namely, a nonzero gluon mass-scale, a process-independent effective charge, and dressed-quarks with constituent-like masses. Contemporary theory is now exposing their manifold and diverse expressions in hadron observables and highlighting the types of measurements that can be made in order to validate the EHM paradigm. In sketching these developments, this presentation will highlight the role of EHM in forming baryon spectra and structure.

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Track Classification: Theory for strong QCD