

# The contribution of QCD trace anomaly to hadron mass

*Tuesday, 17 August 2021 08:30 (20 minutes)*

We present the first Lattice QCD calculation of the quark and gluon trace anomaly contributions to the hadron masses, using the overlap fermion on the 2+1 flavor dynamical Domain wall quark ensemble. The result shows that the gluon trace anomaly contributes to most of the nucleon mass, and the contribution in the pion state is smaller than that in others.

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**Session Classification:** Parallel Session II: Hadron and Flavor Physics

**Track Classification:** 2. 强子物理与味物理