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Gluon Modifications and Asymmetric Light-on-Heavy Nuclear Collisions ADEOLA ADELUYI, Department of Physics, Texas A&M University-Commerce, Commerce, Texas 75429, TRANG NGUYEN, Center for Nuclear Research, Department of Physics, Kent State University, Kent, Ohio 44242, BAO-AN LI, Department of Physics, Texas A&M University-Commerce, Commerce, Texas 75429 — Observables such as nuclear modification factor and pseudorapidity asymmetry in p(d)A collisions are useful in constraining global fits to nuclear parton distributions. Using the framework of perturbative Quantum Chromodynamics (pQCD) we investigate the sensitivity of these observables to nuclear gluon modifications at RHIC (d+Au) and LHC (p+Pb) energies.

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