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**What the Electron-Ion Collider can do for you**

**Timothy Hobbs**
SMU and EIC Center at JLab

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4:00 p.m.

Both the high luminosity LHC (HL-LHC) and the high rates of the intensity frontier promise to provide critical information in the effort to test the Standard Model and uncover New Physics. However limitations in our understanding of the structure of nucleons and nuclei are a dominant systematic uncertainty. A proposed Electron-Ion Collider (EIC) will study deeply-inelastic scattering of leptons and nucleons/nuclei and provide a much improved understanding of both nuclear and nucleon structure. In this talk, I will describe the EIC and illustrate how it will improve the measurements of both the HL-LHC and the Fermilab high intensity program.

**Wilson Hall, One West**