

Physics Division Seminar

Yoshitaka Hatta

Brookhaven National Laboratory

Near Threshold J/psi and Upsilon Production and the Proton Mass Problem

Host: Sylvester Joosten

Thursday, December 19, 2019 – 203, R150, **10:00 AM**

Understanding the origin of the proton mass has been identified as one of the most important questions to be addressed at the future Electron-Ion Collider (EIC). In this talk, I first present a novel QCD analysis of the trace anomaly and its implications on the hadron mass structure. I then discuss how one can access the trace anomaly contribution to the proton mass in near-threshold photo-production of J/psi and Upsilon at current and future experimental facilities.