

GFA - PSD Accelerator Seminar

JLEIC: A High Luminosity Polarized Electron-Ion Collider at Jefferson Lab

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Dr. Yuhong Zhang

**Thomas Jefferson National Accelerator Facility
(Jefferson Lab)**

A recent assessment by US National Academies of Science concluded that the science questions that could be answered by a US-based electron-ion collider are significant to advancing our understanding of the atomic nuclei that make up all visible matter in the universe. JLEIC, a polarized electron-ion collider, was proposed and studied at Jefferson Lab for this QCD frontier, utilizing the existing 12 GeV CEBAF SRF electron linac. The JLEIC machine design promises to deliver unrivaled performance in luminosity and polarization, and outstanding capabilities in detection, preeminent in nuclear physics for decades to come.

In this talk, I will present a brief summary of the JLEIC accelerator design and highlight its accelerator R&D program.

For more details, contact Pavel Chevtsov, 5678