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Future experimental programs at JLab

Friday, 26 June 2026 10:00 (30 minutes)

Jefferson Lab is entering a transformative era, transitioning from a robust current experimental program to a future defined by high-precision measurements and significant facility upgrades. This presentation will provide an overview of the laboratory's scientific trajectory over the next decade and beyond. We begin by reviewing the ongoing experimental campaigns and the status of imminent projects, most notably the MOLLER experiment, which will provide world-leading constraints on the weak mixing angle.
Looking toward the near-term future, we will discuss the status and physics goals of the K-Long Facility (KLF) and the Hypernuclear physics program, both of which are poised to deepen our understanding of hadron spectroscopy and strange matter. Finally, we will offer a glimpse into the long-range strategic planning for CEBAF, highlighting the development of positron beams and the potential for a 22 GeV energy upgrade. These advancements will ensure that Jefferson Lab remains at the forefront of nuclear physics, offering unprecedented access to the valence quark structure of nucleons and nuclei.

Collaboration

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