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Recent Progress of JLab Physics

Monday, 23 September 2024 09:30 (30 minutes)

The Thomas Jefferson National Accelerator Facility (also known as JLab) is a User Facility of the Office of Science of the U.S. Department of Energy, a premium nuclear physics facility at the forefront of exploring the nature of matter. JLab' s Energy Upgraded Continuous Electron Beam Accelerator Facility (CEBAF) can deliver electrons up to 11 GeV with high polarizations onto unpolarized and polarized targets in experimental Halls: A, B and C. In the newest experimental Hall D, electron beams up to 12 GeV impinged onto a diamond radiator are used to generate linearly polarized photon beams. The experimental programs at JLab are among the highest priorities in the 2023 Nuclear Science Advisory Committee (NSAC) Long Range Plan (LRP) for Nuclear Science. In this talk, I will present selected recent results from JLab and discuss some of the plans presented in the 2023 NSAC LRP. This work is supported in part by the U.S. Department of Energy under Contract No. DE-FG02-03ER4123.

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