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Recent progress at the Low Energy Accelerator Development Facility

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The Low Energy Accelerator Development Facility * is located at the site of the Brookhaven National Laboratory (Upton, NY, USA) and is aimed to run a program specially targeting new collaborations for user-driven research. The facility has two fully radiation-shielded bunkers (153 and 77 sq. m) to where a range of electrical, cooling and RF capabilities are presently being introduced. The facility runs also the Ultrafast Electron Diffraction (UED) Facility.

The first shielded bunker will support the deployment of a demonstrator for the Electron Cyclotron Resonance Accelerator ** (eCRA). The deployment is expected to start in April of 2025. At the UED Facility beamline updates are now going into place for a NASA Jet Propulsion Laboratory *** electron irradiator beamline for Single Event Effects (SEE) testing; the capability for UED/UEM testing will be expanded; and the deployment of a new stable solid-state modulator and klystron is in progress.

The presented article provides further details.

Footnotes

- <https://www.bnl.gov/advtech/ast/> ** <https://inspirehep.net/files/abbdafc279bfc778c3c7f9f2df4ee7df> *** <https://www.jpl.nasa.gov/>

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Author: SHCHELKUNOV, Sergey (Brookhaven National Laboratory)

Co-authors: SIMMONDS, Andrew (Brookhaven National Laboratory); ALZAMORA, Jhair (Brookhaven National Laboratory); ROY, Kelly (Brookhaven National Laboratory); BABZIEN, Marcus (Brookhaven National Laboratory); PALMER, Mark (Brookhaven National Laboratory); PENIERA, Mark (Brookhaven National Laboratory); FEDURIN, Mikhail (Brookhaven National Laboratory); POLYANSKIY, Mikhail (Brookhaven National Laboratory); ILARDI, Thomas (Brookhaven National Laboratory); LI, William (Brookhaven National Laboratory); Dr SAKAI, Yusuke (Brookhaven National Laboratory)

Presenter: POLYANSKIY, Mikhail (Brookhaven National Laboratory)

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