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The Linac-Extension Area at the Advanced Photon Source

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The Linac-Extension Area (LEA) at the Advanced Photon Source (APS) in Argonne National Laboratory is an experimental facility located downstream of the APS injection linac. It accepts full-energy beam (up to 450 MeV currently) from the APS linac and supports accelerator R&D experiments. An upgraded photoinjector in the APS linac provides high-quality compressed beams to enable R&D on advanced acceleration techniques and next-generation light source concepts. This contribution discusses expected beam parameters, planned in-house experiments, collaboration opportunities, and the current status of the facility with its upgraded photocathode laser system.

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