

KAERI MeV-UED: Setup and Applications to Ultrafast Chemical Dynamics

Wednesday 27 August 2025 11:30 (30 minutes)

The MeV-UED facility at the Korea Atomic Energy Research Institute (KAERI) has been constructed to investigate ultrafast structural dynamics with a focus on experimental flexibility. This talk will provide an overview of the beamline configuration and timing system, followed by a detailed look at the experimental setup, including gas sample delivery system, interaction chambers, and environmental controls tailored for time-resolved chemical studies. While the system is still under development for broader user access, early experiments have demonstrated the platform's applicability to real-time molecular dynamics. We aim to share our implementation experience and engage in practical discussions on system integration and operation across the UED community

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