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Multi-XUV-photon Multiple Ionization by 20 GW High-harmonic Pulses

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Here, we demonstrate a lab scale high-harmonic-generation source, installed and operating at the attosecond science & technology lab of FORTH-IESL delivering pulse energies of $\sim 230 \mu\text{J}$ and $\sim 130 \mu\text{J}$ in the $\sim 50 \text{ nm}$ spectral range from Xenon and Argon, respectively, in a quasi phase-matched dual gas-jet configuration. XUV pulses of this source have been used to observe multiple ionization of Argon atoms up to Ar^{4+} .

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