

GENERATION AND APPLI- CATIONS OF ATTOSECOND HARD X-RAY PULSES

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Attosecond science using ultrafast optical pulses has revolutionized our understanding of electron dynamics on their intrinsic timescales. Recent advances in electron bunch compression techniques at X-ray free-electron laser (XFEL) facilities have enabled the generation of attosecond X-ray pulses. In this colloquium, I will discuss the generation, temporal diagnostics, and applications of attosecond hard X-ray pulses at LCLS, SACLA, and European XFEL.

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