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Novel operations of high-repetition-rate X-ray free-electron lasers.

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The development of X-ray free-electron lasers (XFELs) marks a major leap forward in exploring matter at atomic and subatomic scales. Recently, high-repetition-rate XFELs based on superconducting linacs have emerged as a leading frontier in the field, with the potential to greatly expand the range of FEL applications. However, these advancements also present substantial challenges in machine design and operation. In this talk, I will present our recent explorations of externally seeded FELs, attosecond XFELs, and multi-beam-energy operations at high repetition rates.

Footnotes

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