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Advanced structures R&D for structure wakefield acceleration at the Argonne Wakefield Accelerator

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Research and development on novel structures is at the core of advancing structure wakefield acceleration (SWFA), and is critical to future AAC-based linear colliders. In this talk, I will present recent progress on the R&D of advanced radiofrequency (RF) structures for Structure Wakefield Acceleration, metamaterial structures, and sub-terahertz structures. The experiments were performed at the Argonne Wakefield Accelerator (AWA) facility, where we capitalized on the capability of generating shaped-electron bunches to improve SWFA performance.

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