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Prospects for future facilities based on energy recovery linacs

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Superconducting Energy Recovery Linacs (ERLs) promise a step change in the capabilities, and sustainability, of accelerator based facilities. This was highlighted in the 2022 ECFA/CERN European Strategy for Particle Physics Accelerator R&D Roadmap. Potential beneficiary fields include high energy particle physics, free-electron laser light sources for physical and life sciences and industry, and inverse Compton based gamma sources for nuclear science and industry. This talk will explore contemporary theoretical and experimental progress in ERLs, discuss the ongoing technical challenges, and present the community roadmaps toward deployment of ERLs in facilities globally.

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Footnotes

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Yes

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