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Echo Effect in FELs Accelerators and Elsewhere

Monday, 22 August 2022 11:00 (25 minutes)

In recent years, echo-enabled harmonic generation (EEHG) demonstrated that it is capable to upshift the seed frequency in an FEL by almost two orders of magnitude. In this presentation, I will talk about the EEHG concept in FELs and show its connection to the echo effect known in other areas of physics (such as spin echo, plasma echo, echo in accelerators, etc.). The physics of the EEHG will be discussed as well as its major limitations.

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Yes

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