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Progress with seeding ATHOS, the soft X-ray FEL at SwissFEL

Tuesday 20 August 2024 12:00 (30 minutes)

The soft X-ray FEL beamline ATHOS at SwissFEL has been upgraded for Echo-enabled Harmonic Generation (EEHG) to provide coherent signals up to 1 keV photon energies. This presentation reports on the current demonstration of the EEHG principle, its challenges to implement it at a beam energy of 3 GeV and the outlook on studies to further improve the electron beam quality, namely reducing the intrinsic energy spread.

Footnotes

Funding Agency

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