



Contribution ID: 213 Contribution code: MOBI4

Type: **Invited Orals**

Laser Controlled Free-Electron Lasers

Monday, 22 August 2022 12:15 (20 minutes)

Laser manipulation of electron beams is important for controlling free-electron lasers. In this talk, I will discuss how strong seeding can enable powerful, efficient FELs and high gradient acceleration when paired with strong tapering. I will then show how laser driven optical compression led to attosecond X-ray FEL pulses at LCLS and plans to use lasers to generate high repetition rate femtosecond and attosecond X-rays at LCLS-II.

I have read and accept the Privacy Policy Statement

Yes

Primary author: DURIS, Joseph (SLAC National Accelerator Laboratory)

Presenter: DURIS, Joseph (SLAC National Accelerator Laboratory)

Session Classification: FEL Prize

Track Classification: Novel acceleration and FEL concepts