

European X-ray Free-Electron Laser: working principle and capabilities

Monday, November 4, 2024 1:30 PM (30 minutes)

Free-Electron Lasers are versatile research tools that provide powerful (up to TW-order) and short (down to sub-fs-order) X-ray pulses.

European XFEL is an international facility dedicated to deliver such pulses to users

In this presentation I will introduce listeners to the basics of FEL Physics. We will discuss capabilities of the European XFEL facility in both nominal and special operation modes, such as self-seeding, 2-color generation and attosecond pulse production.

Type of presence

Presence online

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Session Classification: Exploring Ultrafast Phenomena with the XFEL: Instruments, Capabilities, and Applications

Track Classification: USyNC Workshop