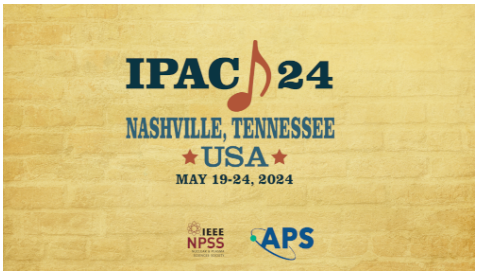

Contribution ID: **969** Contribution code: **MOPG55** Type: **Poster Presentation**

The UK XFEL conceptual design and options analysis - mid-term update

Monday, 20 May 2024 16:00 (2 hours)

The UK XFEL project is now mid-way through its three-year Conceptual Design and Options Analysis (CDOA) phase. The purpose of this phase is to develop concepts to meet the required 'next-generation' XFEL capabilities identified in the project's comprehensive, peer-reviewed, Science Case, which was developed by UK academia. The envisaged next-generation features are a step-change in both the number of simultaneous experiments and in their capability –through multiple, combinable FEL sources delivering transform limited pulses across a wide range of photon energies and pulse durations, together with a comprehensive array of synchronized sources including high power lasers and particle beams. The project is assessing options to achieve this either via a new UK-based facility or by investment at existing XFELs, based on criteria including performance, cost, and environmental sustainability. The project is holding a series of Townhalls and other workshops around the UK (see https://xfel.ac.uk) and is building collaborations nationally and internationally. This talk will give an overview of progress to date and future plans.

Footnotes

Funding Agency

Paper preparation format

LaTeX

Region represented

Europe

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Session Classification: Monday Poster Session

Track Classification: MC2: Photon Sources and Electron Accelerators: MC2.A06 Free Electron Lasers