

Virtual Hard X-Ray Collaboration Seminar Series

Date: Thursday 14 April 2022

Title: Aspects of Multi-FEL Operation at the European XFEL

Speaker: Lars Fröhlich, European XFEL

Abstract:

Unlike other hard X-ray FELs, the superconducting linac of the European XFEL operates in pulsed mode. Each pulse accelerates a train of up to 2700 electron bunches which is distributed over three undulator beamlines and three main beam dumps. This talk explains how this beam distribution works and where its main challenges lie. The "fresh bunch" technique, control system and feedback aspects are highlighted as well as operational and organizational issues.