

Virtual Hard X-Ray Collaboration Seminar Series

Date: Thursday 20th May 2021

Title: Update on Hard X-ray Self-seeding commissioning results at the European XFEL

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Abstract:

Hard X-ray Self-seeding is in commissioning at the European XFEL since Sept. 2019. Several photon energy points have been commissioned and are ready for users. Pulse energy above 1 mJ has been achieved with relatively low background (below 200 μ J) and narrow bandwidth (below 1 eV) at 10 keV. The high repetition rate of European XFEL also allowed to study for the first time the heat-loading effect on the hard x-ray seeding crystal with two-stages seeding system. In this talk we will present our recent results on these studies.