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Status of the Hard X-ray Self-Seeding at the EuXFEL

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As a scheme to increase longitudinal coherence in SASE based FELs, hard X-ray self-seeding (HXRSS) has demonstrated its capability of delivering above 1mJ/eV peak pulse intensity at MHz repetition rate in the SASE2 beam line at the EuXFEL. The delivery of HXRSS started in 2021 at the EuXFEL. With the increasing user requests with stringent requirements, we explored different methods for bandwidth and background controls. Additionally, we are investigating advanced HXRSS operation schemes to further expand our operational capabilities. This presentation will provide an overview of HXRSS status, current capabilities, and future prospects.

I plan to submit also conference proceedings

No

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