



SATELLITE WORKSHOP - Photon Science

Community proposal at the seeded FLASH1

Monday, 26 January 2026

FLASH has been undergoing a significant upgrade with the FLASH2020+ project, resulting in an externally seeded FLASH1 free electron laser branch. The externally seeded operation at a high repetition rate, up to an effective repetition rate of 8 kHz, positions FLASH at a unique place in the international FEL landscape. The increased longitudinal coherence, spectral stability, and high average spectral flux are ideal for advanced ultrafast and nonlinear X-ray probing of matter.

FLASH has started a process for community-driven experiments in the time interval after commissioning, before the start of normal peer-reviewed access mode. The experiments aim to demonstrate a particular capability of the new source, which is essential for your community.

In the AMO and condensed matter science areas, we have offered community experimental opportunities in the next couple of months. The community proposals have been created and will be staged over the coming months. The FLASH team will give an update of the expected parameters from the new machine for those two communities.

In addition, we will stage breakout sessions for the chemistry and biology community, which are more demanding in machine parameters and thus will be staged after the AMO and condensed matter proposals.

Organisers: M. Gühr, R-P. Wang, D. Mayer, S. Bari

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PROGRAMME

14:30-	Welcome and Update on Seeded FLASH1	M. Gühr, L. Schaper
15:30		
15:30-	<i>Coffee break</i>	
15:40		
15:45-	Parallel breakout sessions	
17:45		Biology
		Chemistry
17:45-	Wrapup and Closing	all
18:00		