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XFEL Facilities at Shanghai

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In the past decade, X-ray free electron lasers (XFEL) has seen a rapid development in China. The center of the activities is at Shanghai, led by Shanghai Institute of Applied physics (SINAP) of the Chinese Academy of Sciences (CAS). The starting point was a test facility, where state-of-the-art experiments of FEL physics have been conducted. Since then, SINAP has led the effort of successfully building an VUV and a soft X-ray FEL based on room temperature linacs. Recently, an ambitious high-repetition ray hard X-ray FEL project, Shanghai High repetition rate XFEL aNd Extreme light facility (SHINE), is under way. This paper will present materials on these activities, with an emphasis on the on-going project SHINE.

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