

STATUS AND PERSPECTIVE OF XFEL PROJECTS IN THE WORLD

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Abstract

Free Electron laser at X-ray wavelength is not any more a story of science fiction. Projects at SLAC and RIKEN/Spring-8 are now under construction aiming at generating first laser X-ray radiation in a few years. Two VUV FELs are already in operation at FLASH/DESY and SCSS/RIKEN. These FELs provide new type of experimental tool with unique features: high intensity, short pulse format and coherent. It is believed that XFEL will open new science cases, that why, there are many other similar projects proposed. The talk will cover, XFEL basic, key technology, and brief status of running and proposed projects.

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