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Construction status of hard x-ray beamline at PAL-XFEL

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Pohang Accelerator Laboratory X-ray Free Electron Laser (PAL-XFEL) is planning to finish the construction by the end of this year. The light source will provide ultra-bright (assuming 1×10^{12} photons/pulse at 12.4 KeV) and ultra-short (10-60 femtosecond) X-ray pulses. The HEH2 (Hard x-ray Experimental Hutch 2) is mainly focused on the serial femtosecond crystallography (SFX) for macromolecular systems and coherent diffraction imaging (CDI) for bio specimens and nano structures etc. In this poster, we describe the details of the beamline layout, optical components, focusing optics (Kirkpatrick-Baez mirror and Beryllium CRLs), liquid phase sample injector and other components that will be installed at the HEH2.

Keywords

PAL-XFEL, SFX, CDI, beamline

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