

## **Pixel detectors proposed for the soft x-ray stations of XFEL facilities in Shanghai**

X-ray free-electron laser (XFEL) facilities that can provide coherent x-ray pulses with high intensity and short duration are useful tools in diverse scientific applications. There are two XFEL facilities in Shanghai. The Shanghai soft X-ray Free-Electron Laser facility (SXFEL) has been running since 2022, and the Shanghai High repetition rate XFEL and Extreme light facility (SHINE) is under construction. High performance pixel detectors for soft x-ray detection are demanded by several end-stations on the two facilities. Currently, both hybrid pixel detector and CMOS detector are proposed for different experimental methods. New techniques that can improve the detector performance in soft x-ray range are anticipated.

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