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Progress of the X-ray self-seeding monochromator at the SHINE

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Self-seeding mode is the one of the FEL baselines at the SHINE, which has been used successfully at the LCLS, SACLA, PAL-XFEL and European-XFEL facilities. Both soft and hard X-ray self-seeding are adopted for the wide range of fully coherent X-ray spectrum coverage. Accordingly, the grating monochromator and crystal monochromator are the critical parts of the x-ray self-seeding. At the SHINE project, the scheme design and technological design of the monochromator have been carried out, in which the grating monochromator has been tested online at the SXFEL facility. In this manuscript, we will introduce the progress of the schemes from the basic physical design to the technological design.

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Footnotes

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Yes

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