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Bringing Transient Grating Spectroscopy into the X-ray regime

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Transient Grating Spectroscopy (TGS) is a versatile four-wave mixing technique that has been widely used in the optical regime. It notably provides information on transport and acoustic relaxation. We present how TGS can be extended into the X-ray range using the Talbot effect to generate the transient grating. We further explore how full X-ray pump and probe TGS can be implemented and the physical phenomena that we expect to access in that regime.

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