

SwissFEL Workshop 2: Scattering and diffraction experiments



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Possibilities for nonlinear x-ray scattering with SwissFEL

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The high peak spectral brilliance of SwissFEL will provide new opportunities to study the nonlinear interaction of x-rays with matter. For example, impulsive stimulated scattering can be used to control and manipulate coherent populations of material excitations with a flexibility not possible with nonlinear processes at optical wavelengths. This poster will discuss some of the required characteristics for such experiments at SwissFEL.

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