

INELASTIC SCATTERING OF X RAYS WITH VERY HIGH ENERGY RESOLUTION

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[Inelastic X-ray scattering with high energy resolution a ...](#)

[Inelastic X-ray scattering with high energy resolution a new method for investigations of condensed matter](#) [Resonant inelastic X-ray scattering - Wikipedia](#) [Resonant inelastic X-ray scattering \(RIXS\) is an X-ray spectroscopy technique used to investigate the electronic structure of molecules and materials. Inelastic X-ray scattering is a fast developing experimental technique in which one scatters high energy, X-ray photons inelastically off matter.](#)

[Ultrahigh-Energy-Resolution Inelastic X-Ray Scattering ...](#)

[Very-high-energy-resolution measurements using X-rays can be achieved by extreme backreflec- tion \(Bragg angle close to 90 \) from perfect crystals. This technique allowed the development of the](#)

[Inelastic Scattering of X-Rays with Very High Energy ...](#)

[Inelastic scattering of X-rays with very high energy resolution has finally become possible thanks to a new generation of high-intensity X-ray sources. This development marks the end to the traditional belief that low energy excitations like lattice vibrations cannot be resolved directly with X-rays](#)

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[Inelastic scattering of X-rays with very high energy resolution has finally become possible thanks to a new generation of high-intensity X-ray sources. This development marks the end to the traditional belief that low energy excitations like lattice vibrations cannot be resolved directly with X-rays: Inelastic scattering experiments allow to observe directly the small energy shifts of the](#)

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[High-resolution Resonant Inelastic X-ray Scattering \(RIXS\) requires diffraction gratings with very exacting characteristics. The gratings should provide both very high dispersion and high efficiency which are conflicting requirements and extremely challenging to satisfy in the soft x-ray region for a traditional grazing incidence geometry. To achieve high dispersion one should increase the](#)

[Prospects of high-resolution resonant X-ray inelastic ... magnetic as well as orbital excitations with very high sensi- tivity with a resolving power of up to 12500 at 930 eV photon energy \[Strocov et al., 2010; Ghiringhelli et al.,](#)

2006; see also the collection of papers on Progress in Resonant Inelastic X-ray Scattering (Schmitt & Simon, 2013)]. Instrumental improvements of the RIXS technique are, at the time of writing, underway at several of

X-ray - Wikipedia

Compton scattering is an inelastic scattering of the X-ray photon by an outer shell electron. Part of the energy of the photon is transferred to the scattering electron, thereby ionizing the atom and increasing the wavelength of the X-ray. The scattered photon can go in any direction, but a direction similar to the original direction is more likely, especially for high-energy X-rays. The

Inelastic X-Ray Scattering & Lattice Dynamics

Momentum Resolved High Energy Resolution IXS (HERIX) Sectors 3, 30 Resonant Inelastic X-Ray Scattering, RIXS : Sector 27 X-Ray Raman Scattering, XRS : Sectors 13, 16, 20

Introduction to High-Resolution Inelastic X-Ray Scattering

Magnons (say 0.01-1 eV) are not shown but may be accessed via soft x-ray inelastic x-ray scattering (SIXS).

The energy scale of the core excitations will depend significantly on the material and that for Compton scattering on the x-

Inelastic X-ray scattering with very high resolution

Summary: Very high energy resolution of X-rays can be achieved by backreflection (Bragg angle θ near to 90°) from perfect single crystals. The resolution ΔE is proportional to $1/E$.

High-resolution inelastic x-ray scattering - ELETTRA

Energy transfer: $E_i - E_f = E$ Momentum transfer: $k_i - k_f = Q$ - Scattering kinematics $dW = k_i E_i - 2q \cdot Q - E_{\text{photon}} G$.

Monaco High-resolution inelastic x-ray scattering Muggia, 25/09/2017