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Measuring spin excitations in insulating and superconducting cuprates by soft x-ray RIXS

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Resonant inelastic x-ray scattering (RIXS) offers a unique view on local and collective excitations in strongly correlated materials, complementary to established techniques like neutrons, optics, or photoemission. The commissioning at the Swiss Light Source of the high-resolution ($E/\Delta E \sim 10^4$) SAXES soft x-ray spectrometer opened the way to measurements of the full spin wave spectrum in the cuprates, and the accurate evaluation of crucial model parameters. I will discuss RIXS data for the paradigmatic AFM parent compound $\text{SrCuO}_2\text{Cl}_2$ and, for Bi-2212 , the evolution of the magnetic excitations into the superconducting part of the phase diagram.

Please specify the session

RIXS

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Talk

Primary author: Prof. GRIONI, Marco (EPF Lausanne, Switzerland)

Presenter: Prof. GRIONI, Marco (EPF Lausanne, Switzerland)

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