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

Friday, 16 September 2011 14:50 (30 minutes)

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/ΔE˜10'000) 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 SrCuO2Cl2 and, for Bi-2212, the evolution of the magnetic excitations into the superconducting part of the phase diagram.

Please specify the session

RIXS

Please specify poster or talk

Talk

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

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

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