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Soft x-ray RIXS. A new long beamline at ALBA

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The current needs generated by the race towards understanding and tailoring properties of quantum materials and the urgent social demand of greener and/or sustainable energies has boosted the demand of mapping weak excitations in matter. Resonant Inelastic X-ray Scattering, RIXS, is a unique tool that can return full energy and momentum resolved maps of such excitations, and has provided new insights in many different areas, from superconductivity, magnetism and energy harvesting (batteries, data storage,...). There is an exceeding large demand of beam time at RIXS beamlines that cannot be covered by the large scale facilities (ERSF, Diamond, NSLS II, Soleil,...). There is also the need to develop tools that could allow mapping micrometric samples and devices, and perform analysis under flexible variety of external stimuli. These are the goals that the new long beamline aims to offer to the scientific community.

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