On the theory of resonant inelastic x-ray scattering in correlated materials

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In this talk I will present a review of the current status of the theory of resonant inelastic x-ray scattering, with a particular focus on what can be learned about fundamental multi particle excitations in strongly correlated materials. I will emphasize these developments in concert with the improved ability of new light sources to offer exquisite mapping of excitations in the frequency and time domain with full polarization control.

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