

Combining Ultrafast Experimental Probes of Spin and Lattice Excitations

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I will discuss recent progress in studying ferromagnetic and antiferromagnetic thin-films and multilayers by ultrafast x-ray diffraction, emphasizing the relevance of the lattice temperature for ultrafast disordering and reordering of the spin system. We will discuss the systems Au/Ni as well as the rare earths Dy, Ho and Gd.

