

## CONTROLLING SPINS IN SPACE AND TIME

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Magnetism is a quantum effect that has fascinated mankind for millennia and also led to many modern-day applications, very prominently in information processing and storage. Now available polarized soft X-ray pulses from X-FELs with sub-100 fs duration allow observing magnetic interactions at work in their natural length and timescales. I will show how the challenges for performing time-resolved XMCD at the Linac Coherent Light Source have recently been overcome and give an overview how such studies help to understand the fundamental speed limits for nanoscale spin motion.

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CFEL  
SEMINAR ROOMS I-III

