Ultrafast dynamics of magnetic anisotropy and magnetic structure in ferrimagnetic CoTb alloys.

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Introduction

Experiment

Results

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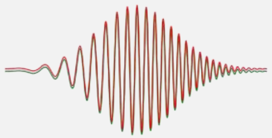
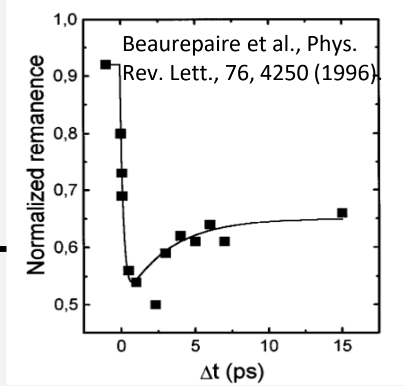
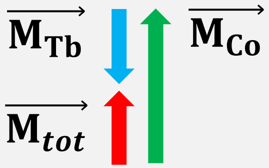
Introduction

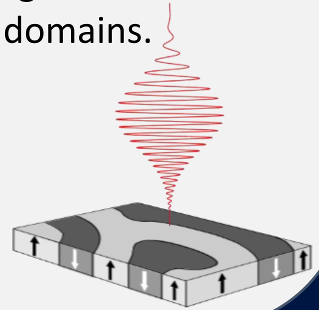
What's the impact of short laser pulse on a ferromagnet ?





- Some material as ferrimagnetic CoTb exhibit a out of plane magnetic domains.





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Introduction

Experiment

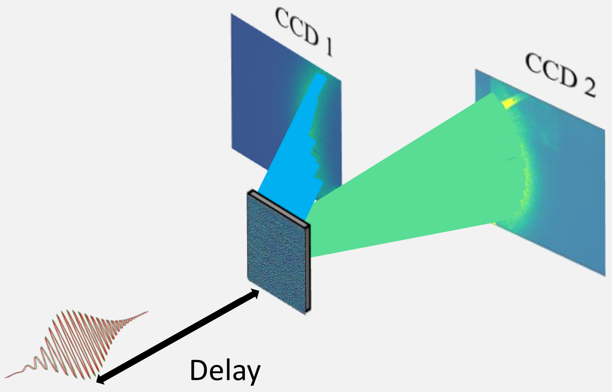
- We conduct a pump-probe experiments at FERMI.

IR Pump :

λ = 800 nm

XUV Probe :

Co $M_{2,3}$ edges (58.9 eV)
Tb $N_{4,5}$ edges (150.5 eV)



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- After data treatment: Azimuthal integration.