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Prof Jason Petta - Coherent Coupling of Spin and Light**Wulff Lecture: Funny Microscope Videos – Prof. Frances M. Ross**

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Quantum Optics - introduction to the course

Magnetism: Nanomagnetism Applications~~21 - Time reversal symmetry breaking, spin-orbit interactions and spintronics - Amnon Aharony~~

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Talks - Spin Dynamics in the Dirac Systems - Claudia Felser, MPI Dresden

Spin and valley physics in semiconducting 2D systems - JIYONG FU~~Magnetic and Static = Aether (Proof)~~ Ramamoorthy Ramesh ¦ Electric Field Control of Magnetism

Mark Stiles - Spin Current: the Torque Wrench of SpintronicsTalks - Antiferromagnetic Spintronics - Eberhard Gross - Ultrafast laser driven spin dynamics *Magnetic Nanostructures Spin Dynamics And*

Nanomagnetism and spintronics is a rapidly expanding and increasingly important field of research with many applications already on the market and many more to be expected in the near future. This field started in the mid-1980s with the discovery of the GMR effect, recently awarded with the Nobel prize to Albert Fert and Peter Grünberg.

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Magnetic Nanostructures: Spin Dynamics and Spin Transport ...

The interconnection between the spin current and spin dynamics via the spin-dependent scattering and an accompanying by spin torque effect in ferromagnetic/normal metal based magnetic multilayer nanostructures is studied including a high fast out-of-equilibrium spin dynamics. Features of the spin transport through interfaces and its impact on spin dynamics are described on the base of the scattering matrix formalism for spin flows.

Spin Transport and Dynamics in Multilayer Magnetic ...

The elementary physical mechanisms involving the spin dynamics when exciting magnetic nanostructures with femtosecond optical pulses are considered. The variety of experimental methods and theoretical approaches used to study the magnetic properties of the materials on a broad range of temporal and spatial scales are examined.

Ultrafast magnetization dynamics of nanostructures - Bigot ...

The objective, invariably, is to control and study spin dynamics using charge and elastic degrees of freedom. In certain cases, an understanding of this coupling can be exploited reciprocally to employ magnetic fields in controlling the charge and/or elastic dynamics.

Coupled spin, elastic and charge dynamics in magnetic ...

accompanying by spin torque effect in ferromagnetic/normal metal based magnetic multilayer nanostructures is studied including a high fast out-of-equilibrium spin dynamics. Features of the spin transport through interfaces and its impact on spin dynamics are described on the base of the scattering matrix formalism for spin flows.

Spin Transport and Dynamics in Multilayer Magnetic ...
Engineering and Physical Sciences Research Council (EPSRC) Date: 2 November 2020

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Magnetic Nanostructures: Spin Dynamics and Spin Transport ...
The field of spintronics is dynamic and evolving at a tremendous pace. This field is centered on the creation and manipulation of spin currents and their use in manipulating magnetic moments via the transfer of spin and orbital angular momenta. Just in the past 3 years the conversion of pure charge currents to pure spin currents has made major advances with unforeseen efficiencies in simple metals of up to 50% and perhaps even greater efficiencies in unconventional topological matter.

2017 Spin Dynamics in Nanostructures Conference GRC
In magnetic materials, both the dynamics and life-times of hot-electrons depend on their spin polarization [22{24]. These dierences lead to the concept of spin-dependent transport upon laser excitation and thus to the generation of ultrafast spin cur- rent pulses.