



UNIVERSITÄT  
LEIPZIG

# Felix Bloch Lecture Leipzig 23.10.2018



## Felix Bloch Lecture Leipzig im Rahmen des Physik-Kolloquiums

**Tuesday, 23 October 2018**

Universität Leipzig  
Faculty of Physics and Earth Sciences  
04103 Leipzig, Linnéstraße 5,  
Lecture Hall for Theoretical Physics

- 17:00 *Opening*  
Prof. Dr. Marius Grundmann  
Felix Bloch Institute for Solid State  
Physics, Universität Leipzig
- 17:05 *Welcome address*  
Prof. Dr. Erich Schröger  
Vice-Rector for Research and  
Young Academics,  
Universität Leipzig
- 17:15 Prof. Dr. Theo Rasing  
Institute of Molecules and Materials  
(IMM), Radboud University  
Nijmegen, Netherlands  
***Controlling Spin Dynamics  
with Light***
- 18:10 Dr. Gerhard Rammer  
Institut für Philosophie, Literatur-,  
Wissenschafts- und  
Technikgeschichte,  
Technische Universität Berlin  
***Felix Bloch and his Early Years in  
Leipzig***
- 18:40 Prof. Dr. Marius Grundmann  
Felix Bloch Institute for Solid State  
Physics, Universität Leipzig  
*Award Ceremony for the Felix Bloch  
Young Investigator Award*
- 19:00 Unveiling of bronze plate  
commemorating Felix Bloch (Foyer)  
*Felix Bloch and the genius loci –  
Science between Irrenklinik und  
Friedhof*
- Reception (Aula)*
- Alle Interessenten sind dazu herzlich  
eingeladen.**
- Leipzig, 4 September 2018  
Prof. Dr. Marius Grundmann


Wir weisen Sie darauf hin, dass während  
der Veranstaltung Fotos gemacht werden.



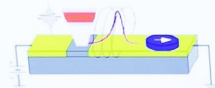
Photo: S. Reichhold

## Intuitive picture of spin reversal

Simple single spin problem


$$\frac{\partial S_i}{\partial t} = -\gamma S_i \times B_{\text{eff}}$$

optical switch for short current = B pulses:





Photos: S. Reichhold



Photo: S. Reichhold



UNIVERSITÄT  
LEIPZIG

# Felix Bloch Early Investigator Award 2018

is awarded to

**Dr. Ralf Wunderlich**

for his PhD thesis



**Nukleare Hyperpolarisation  
im Diamanten mittels  
Stickstoff-Fehlstellen-Zentren  
und komplexer  
Vier-Spin-Kopplung**



Unveiling of the Felix Bloch memorial plate made by Leipzig artist Markus Gläser in the foyer of physics building with help from Frank Bloch (son of Felix Bloch) and his son Elias.



Photo: M. Grundmann, Univ. Leipzig

Photos: S. Reichhold





Photo: S. Reichhold