

# Workshop IFW-SPINTEC 16-17 Nov. 2017

## Thursday 16/11 – B3E26

- 12h Arrival at the IFW  
12h-13h Lunch (IFW mensa)  
13h-13h30 Directors meeting
- 13h30 Introduction  
**Overview of the IFW**  
**Overview of SPINTEC**
- 14h TMD session
- 14h-14h30 Tuan DAU  
*van der Waals epitaxy of transition-metal diselenides*
- 14h30-15h Roman SCHUSTER  
*Photoemission and Optical Spectroscopy on TMDCs*
- 15h Theory session
- 15h-15h30 Mair CHSHIEV  
*Microscopic mechanisms of spintronic and spinorbitronic phenomena using first-principles & tight-binding approaches*
- 15h30-16h Manuel RICHTER  
*FPLO code: Quantitative Predictions by Electronic Structure Theory*
- 16h-16h30 Dmitriy EFREMOV  
*Interaction-driven topological insulators and chiral superconductivity*
- 16h30-17h Coffee pause
- 17h TI session
- 17h-17h30 Laurent VILA  
*Spin-to-charge interconversion using the spin orbit coupling, and lateral nanodevices*
- 17h30-18h Joseph DUFOULEUR  
*Quantum transport in low-D systems*
- 18h30 Hotel  
20h Dinner @ « Alte Meister »

## Friday 17/11 – Lecture Hall

- 9h MTJ session
- 9h-9h30 Lucian PREJBEANU  
*Reliability of the tunnel barriers in magnetic tunnel junctions for STT-MRAMs*
- 9h30-10h Andy THOMAS  
*Thin films preparation at the IFW*
- 10h-10h30 Volker NEU  
*The NanoFrazor*
- 10h30-11h Coffee pause
- 11h-11h30 Axel LUBK  
*Advanced Holography and Tomography for Magnetic Imaging of Magnetic Nano-Textures*
- 11h30-12h Daniil KARNAUSHENKO  
*Shape defined magnetic sensing*
- 12h-12h30 Michael MELZER  
*Stretchable and imperceptible magnetoelectronics*
- 12h30-13h30 Lunch (IFW mensa)
- 13h30-15h30 Round tables  
(ANR-DFG proposals)
- Lab visits
- 15h30-16h Debrief
- 16h Departure