# Program - TRR227 Retreat 2026

## 26/27 November 2026

**Venue: MLU Halle - Campus Heide Süd - "Theory Building", Von-Seckendorff-Platz 1 - Rooms 5.09 / 5.10**

| Date | | Time | Project | Presenter | Title |
|---|---|---|---|---|---|
| **26 Nov 2026 Thursday** | | *10:15 - 10:45* | *Coffee & Snacks* | | Arrival of participants |
| | chair: K. Bolotin | 10:50 - 11:00 | TRR 227 | Martin Weinelt | Welcome and opening remarks |
| | | 11:00 - 11:25 | A06 | Wolf Widdra | *Ultrafast guided charge currents monitored by photoelectron in-plane momentum-streaking* |
| | | 11:25 - 11:50 | A11 (N) | Niels Schröter | *Flat bands and thin-film growth in kagome magnets* |
| | | 11:50 - 12:35 | invited | Nadine Leisgang (Univ. Marburg) | *2D semiconductors: a tunable platform for Coulomb-driven many-body physics* |
| | | 12:35 - 14:00 | *Lunch break* | | |
| | chair: K. Franke | 14:00 - 14:25 | A10 | Will Windsor | *Spin-induced lattice dynamics in the vdW antiferromagnet NiPS3* |
| | | 14:25 - 14:50 | B08 | Kirill Bolotin | *Acousto-magnonic cavities in 2D magnets* |
| | | 14:50 - 15:15 | *Coffee break* | | |
| | chair: M. Weinelt | 15:15 - 16:00 | invited | Florian Dirnberger (TU München) | *Making waves with excitons, magnons and light* |
| | | 16:00 - 16:25 | B12 (N) | Franziska Ziolkowski | *Beyond the orbital Hall effect: Real-space tight-binding simulations of optically induced orbital dynamics* |
| | | 16:25 - 16:50 | B03 | Piet Brouwer | *Anomalous Hall conductivity of a tight-binding graph* |
| | | 17:00 - 19:00 | Poster Session | | |
| | | in parallel 18:00 - 19:00 | *Dinner (buffet style)* | | |
| | | 20:30 - | *Get-together* | *Downtown Halle* | *self-organized* |

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| | | 08:30 - 09:00 | all projects | | PL Meeting |
| **27 Nov 2026 Friday** | chair: T. Kampfrath | 09:00 - 09:45 | invited | Helena Reichlova (FZU Prague) | *Electronic and magnonic spin transport in altermagnets* |
| | | 09:45 - 10:10 | B11 | Hélène Seiler | *k-resolved 2D spectroscopy to probe exciton-polaritons in 2D materials* |
| | | 10:10 - 10:35 | A01 | Martin Weinelt | *Ultrafast spin and angular momentum excitations in metals* |
| | | 10:35 - 11:00 | *Coffee break* | | |
| | chair: S. Eisebitt | 11:00 - 11:25 | B10 | Banabir Pal (N) | *Novel quantum materials for future spin-based electronics* |
| | | 11:25 - 11:50 | B05 | Karharina Franke | *Coherent excitations in $Fe_3GeTe_2$ probed with THz STM* |
| | | 11:50 - 12:15 | MF | Peter Oppeneer | *Recent theoretical results in ultrafast magnetization dynamics* |
| | | 12:15 - 13:45 | *Lunch* | | |
| | chair: S. Lounis | 13:45 - 14:30 | invited | Sachin Krishnia (Univ. Mainz) | *Orbitronics with orbital magnets* |
| | | 14:30 - 14:55 | A02 | Clemens v. Korff Schmising | *The elusive inverse Faraday effect* |
| | | 14:55 - 15:20 | A04 | Sangeeta Sharma | *Ultrafast unlocking of topology with phonons for spin control* |
| | | 15:20 - 15:45 | A05 + B02 | Tobias Kampfrath | *Terahertz spin-orbitronics with antiferromagnets* |

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