

Frontiers of Electronic Structure Theory: Focus on Topology and Transport

Focussed Session at the DPG Spring Meeting 2016 in Regensburg

<http://th.fhi-berlin.mpg.de/meetings/DPGSym2016/>



**Stefan
Blügel**



**Ewelina
Hankiewicz**



**Jürgen
Henk**



**Jelena
Klinovaja**



**Allan
MacDonald**



**Shuichi
Murakami**



**Jairo
Sinova**



**Ivo
Souza**



**Peizhe
Tang**



**Binghai
Yan**

Monday, March 7 - Friday, March 11 - Uni Regensburg

Invited and contributed talks, poster session

Monday, March 7 MM12 15:45 - 17:45 (H51)
Tuesday, March 8 O41 14:00 - 16:00 (H24)
Wednesday, March 9 O55 10:30 - 13:00 (H24)
Wednesday, March 9 O62 15:00 - 18:30 (H24)

Thursday, March 10 O80 10:30 - 13:15 (H24)
Thursday, March 10 O88 15:00 - 18:15 (H24)
Friday, March 11 O99 09:30 - 12:15 (H1)

Shuichi Murakami: Topological semimetals and chiral transport in inversion asymmetric systems (Tuesday 14:00, H24) • **Jürgen Henk:** Topological semimetal phases in strained HgTe-based alloys (Wednesday 15:00, H24) • **Binghai Yan:** Topological surface Fermi arcs and the chiral anomaly in Weyl semimetal materials (Wednesday 15:30, H24) • **Ivo Souza:** Transport phenomena in broken-symmetry metals: Geometry, topology, and beyond (Thursday 10:30, H24) • **Peizhe Tang:** Dirac Fermions in antiferromagnetic semimetal (Thursday 11:00, H24) • **Allan MacDonald:** Intrinsic transport coefficients and momentum space Berry curvatures (Friday 09:30, H1) • **Jairo Sinova:** Berry phase linked spin-orbit torques in ferromagnetic and antiferromagnetic systems (Friday 10:00, H1) • **Ewelina Hankiewicz:** Transport in topological insulators and topological superconductors: In search of Majorana fermions (Friday 10:30, H1) • **Jelena Klinovaja:** Engineering topological quantum states: From 1D to 2D (Friday 11:15, H1) • **Stefan Blügel:** Skyrmions – Topological magnetization solitons for future spintronics (Friday 11:45, H1)

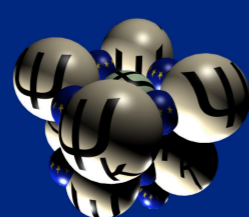
**Posters related to the focussed session will be presented at the poster sessions O66:
Wednesday, March 9, 18:15 - 20:30 in poster area A**

Organized by Ingrid Mertig¹⁾, Giovanni Vignale²⁾, and Matthias Scheffler³⁾

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European
Theoretical
Spectroscopy
Facility

The Psi-k Network for electronic-structure calculations
invites all ab initio scientists to a
"Psi-k Scientific Get-Together"
Tuesday, March 8, 2016, 19:00 - 22:00.
Mensa, Albertus-Magnus-Strasse, Uni Regensburg
Food and beer will be served, sponsored by Psi-k