

MM 12: Frontiers of Electronic Structure Theory: Focus on Topology and Transport

Monday 15:45–17:45

H51

Talk	MM 12.1 Mon 15:45 H51	15 min. coffee break
Mechanism of Li intercalation/deintercalation into/from the surface of LiCoO₂ — •ASHKAN MORADABADI and PAYAM KAGHAZCHI — Institut für Chemie und Biochemie, Freie Universität Berlin, Takustr. 3, 14195 Berlin, Germany		Talk
Talk	MM 12.2 Mon 16:00 H51	MM 12.5 Mon 17:00 H51
Potential-dependent mechanism of Li diffusion in Li₂S — •ASHKAN MORADABADI ^{1,2} and PAYAM KAGHAZCHI ¹ — ¹ Institut für Chemie und Biochemie, Freie Universität Berlin, Takustr. 3, 14195 Berlin, Germany — ² Institut für Materialwissenschaft, Fachgebiet Materialmodellierung, Technische Universität Darmstadt, Jovanka-Bontschits-Str. 2, 64287 Darmstadt, Germany		High-pressure and nonlinear elastic response of solids: Example of carbon allotropes — •PASQUALE PAVONE, ROSTAM GOLESORKHTABAR, STEFAN KONTUR, and CLAUDIA DRAXL — Humboldt-Universität zu Berlin, Physics Department and IRIS Adlershof, 12489 Berlin, Germany
Talk	MM 12.3 Mon 16:15 H51	Talk
Extremely high magnetoresistance in topological insulator candidate LaBi — •NITESH KUMAR, CHANDRA SHEKHAR, and CLAUDIA FELSER — Max Planck Institute for Chemical Physics of Solids, 01187 Dresden, Germany		MM 12.6 Mon 17:15 H51
Talk	MM 12.4 Mon 16:30 H51	Calculations of temperature dependent resistivity for transition metals from the first principles — •DAVID WAGENKNECHT ^{1,2} , ILJA TUREK ^{1,2} , and KAREL CARVA ¹ — ¹ Department of Condensed Matter Physics, Faculty of Mathematics and Physics, Charles University in Prague; Ke Karlovu 3, 12116 Prague 2, Czech Republic — ² Institute of Physics of Materials, Academy of Sciences of the Czech Republic; Žižkova 22, 61662 Brno, Czech Republic
VOTCA-STP - Multi Scale Modeling of Spin Transport in Organic Semiconductors — •ERIK R. MCNELLIS, SHAYAN HEMMATIYAN, AMAURY MELO SOUZA, SEBASTIAN MÜLLER, and JAIRO SINNO — Johannes Gutenberg University, Mainz, Germany		Talk
		MM 12.7 Mon 17:30 H51
		Ab Initio Molecular Dynamics Study of Conjugated Polymer Systems: The Elusive Localization of the Polaron — •HÅKAN W. HUGOSSON ¹ , AMINA MIRSAKIYEVA ¹ , and ANNA DELIN ^{1,2} — ¹ Department of Materials och Nano Physics, KTH Royal Institute of Technology, Stockholm, Sweden. — ² Ångstrom Laboratory, Uppsala University, Uppsala, Sweden.

O 41: Frontiers of Electronic Structure Theory: Focus on Topology and Transport I

Tuesday 14:00–16:00

H24

Topical Talk	O 41.1 Tue 14:00 H24	
Topological semimetals and chiral transport in inversion asymmetric systems — •SHUICHI MURAKAMI — Department of Physics and TIES, Tokyo Institute of Technology, Tokyo, Japan		— Peter Grünberg Institut and Institute for Advanced Simulation, Forschungszentrum Jülich and JARA, D-52425 Jülich, Germany
Talk	O 41.2 Tue 14:30 H24	Talk
Topological orbital magnetic moments — •MANUEL DOS SANTOS DIAS, JUBA BOUAZIZ, MOHAMMED BOUASSOUNE, STEFAN BLÜGEL, and SAMIR LOUNIS — Peter Grünberg Institut and Institute for Advanced Simulation, Forschungszentrum Jülich and JARA, D-52425 Jülich, Germany		O 41.5 Tue 15:15 H24
		First-principles investigation of the impact of single atomic defects on magnetic skyrmions — •IMARA L. FERNANDES, BENEDIKT SCHWEFLINGHAUS, JUBA BOUAZIZ, STEFAN BLÜGEL, and SAMIR LOUNIS — Peter Grünberg Institut and Institute for Advanced Simulation, Forschungszentrum Jülich & JARA, D-52425 Jülich, Germany
Talk	O 41.3 Tue 14:45 H24	Talk
The orbital Rashba effect — •DONGWOOK GO ^{1,2} , PATRICK BUHL ¹ , GUSTAV BIHLMAYER ¹ , YURIY MOKROUOV ¹ , HYUN-WOO LEE ² , and STEFAN BLÜGEL ¹ — ¹ Institute for Advanced Simulation and Peter Grünberg Institut, Forschungszentrum Jülich and JARA, D-52425 Jülich, Germany — ² Department of Physics, Pohang University of Science and Technology, 37673 Pohang, Korea		O 41.6 Tue 15:30 H24
Talk	O 41.4 Tue 15:00 H24	Topological magnons: Any chance to find them? — •ALEXANDER MOOK ¹ , JÜRGEN HENK ² , and INGRID MERTIG ^{1,2} — ¹ Max-Planck-Institut für Mikrostrukturphysik, D-06120 Halle — ² Institut für Physik, Martin-Luther-Universität, D-06120 Halle
Spin and orbital magnetism of Rashba electrons induced by magnetic nanostructures — •JUBA BOUAZIZ, MANUEL DOS SANTOS DIAS, PHIVOS MAVROPOULOS, STEFAN BLÜGEL, and SAMIR LOUNIS		Talk
		O 41.7 Tue 15:45 H24
		Acoustic magnons in the long-wavelength limit: resolving the Goldstone violation in many-body perturbation theory — •MATHIAS C.T.D. MÜLLER, CHRISTOPH FRIEDRICH, and STEFAN BLÜGEL — Peter Grünberg Institut and Institute for Advanced Simulation, Forschungszentrum Jülich and JARA, 52425 Jülich, Germany

O 55: Frontiers of Electronic Structure Theory: Focus on Topology and Transport II

Wednesday 10:30–13:00

H24

Talk	O 55.1 Wed 10:30 H24	Talk
Coupled-Cluster approach for both molecules and solids in the numeric atom-center orbital framework — •TONGHAO SHEN, ARVID CONRAD IHRIG, IGOR YING ZHANG, and MATTHIAS SCHEFFLER — Fritz-Haber-Institut der MPG, Berlin.		O 55.3 Wed 11:00 H24
Talk	O 55.2 Wed 10:45 H24	Water adsorption energetics at the "gold standard": Small molecule binding to TiO₂(110) — •DANIEL BERGER ^{1,2} , A. KUBAS ³ , D. MANGANAS ³ , H. OBERHOFER ¹ , F. NEESE ³ , and K. REUTER ¹ — ¹ TU München — ² University of California, Los Angeles — ³ MPI für chemische Energiekonversion, Mülheim an der Ruhr
		Photo-isomerization in azobenzene-functionalized self-assembled monolayers: The impact of many-body effects — •CATERINA COCCHI and CLAUDIA DRAXL — Institut für Physik und IRIS Adlershof, Humboldt-Universität zu Berlin, Berlin, Germany
		Talk
		O 55.5 Wed 11:30 H24

Laplace-transformed MP2 with localized Resolution of Identity -efficient in-memory MP2 for large systems — •ARVID CONRAD IHRIG¹, PATRICK RINKE², IGOR YING ZHANG¹, and MATTHIAS SCHEFFLER¹ — ¹Fritz-Haber-Institut der Max-Planck-Gesellschaft, Berlin, Germany — ²Aalto University, Helsinki, Finland

Talk O 55.6 Wed 11:45 H24

GW singles contributions for the random phase approximation correlation energies — •JIRI KLIMES¹, MERZUK KALTAK², EMANUELE MAGGIO³, and GEORG KRESSE³ — ¹J. Heyrovský Institute of Physical Chemistry, Prague, Czech Republic — ²Department of Physics and Astronomy, Stony Brook University, Stony Brook, NY — ³University of Vienna, Faculty of Physics, Vienna, Austria

Talk O 55.7 Wed 12:00 H24

Long-range corrected DFT meets GW: vibrationally resolved photoelectron spectra from first principles — •THOMAS KÖRZDÖRFER — Institut für Chemie, Universität Potsdam, D-14476 Potsdam

Talk

O 55.8 Wed 12:15 H24

LDA-1/2 as a starting point for G_0W_0 calculations — •RONALDO RODRIGUES PELA^{1,2}, UTE WERNER¹, DMITRII NABOK¹, and CLAUDIA DRAXL¹ — ¹Humboldt-Universität zu Berlin, Institut für Physik and IRIS Adlershof, Berlin, Germany — ²Instituto Tecnológico de Aeronáutica, São José dos Campos, Brazil

Talk

O 55.9 Wed 12:30 H24

DFT+U within a numeric atom-centered orbital basis — •MATTHIAS KICK, HARALD OBERHOFER, and KARSTEN REUTER — Technische Universität München

Talk

O 55.10 Wed 12:45 H24

High-throughput Screening and Statistical Learning for Design of Transparent Conducting Oxides — •CHRISTOPHER SUTTON, LUCA M. GHIRINGHELLI, and MATTHIAS SCHEFFLER — Fritz-Haber-Institut der Max-Planck-Gesellschaft

O 62: Frontiers of Electronic Structure Theory: Focus on Topology and Transport III

Wednesday 15:00–18:30

H24

Topical Talk O 62.1 Wed 15:00 H24

Topological semimetal phases in strained HgTe-based alloys — TOMÁŠ RAUCH¹, STEVEN ACHILLES¹, •JÜRGEN HENK¹, and INGRID MERTIG^{1,2} — ¹Martin Luther University Halle-Wittenberg, Halle, Germany — ²Max Planck Institute of Microstructure Physics, Halle, Germany

Topical Talk O 62.2 Wed 15:30 H24

Topological surface Fermi arcs and the chiral anomaly in Weyl semimetal materials — •BINGHAI YAN — Max Planck Institute for Chemical Physics of Solids, Dresden

Talk O 62.4 Wed 16:15 H24

Topological surface Fermi arcs and spin-textures of the Weyl semimetals TaAs, TaP, NbAs, and NbP — •YAN SUN¹, SHU-CHUN WU¹, CLAUDIO FELSER¹, and BINGHAI YAN^{1,2} — ¹Max Planck Institute for Chemical Physics of Solids, 01187 Dresden, Germany. — ²Max Planck Institute for the Physics of Complex Systems, 01187 Dresden, Germany

Talk O 62.5 Wed 16:30 H24

New electron states at the Bi/InAs(111) interface — •L NICOLAÏ^{1,2,3}, K HRICOVINI^{2,3}, J-M MARIOT⁴, M C RICHTER^{2,3}, O HECKMANN^{2,3}, U DJUKIC², T BALASUBRAMANIAN⁵, M LEANDERSSON⁵, J SADOWSKI⁵, J DENLINGER⁶, I VOBORNIK⁷, J BRAUN⁷, H EBERT⁷, and J MINÁR^{7,8} — ¹LMU, Munich — ²LPMS, UCP, Cergy, France — ³DSM-IRAMIS, Spec, Cea-Saclay, France — ⁴LCP-MR, UPMC Univ. Paris 06/CNRS, France — ⁵MAX-lab, Lund Univ., Sweden — ⁶ALS, Berkeley, USA — ⁷EST, Trieste, Italy — ⁸Univ. of West Bohemia, Plzeň, Czech Republic

Talk O 62.6 Wed 16:45 H24

Two-dimensional topological phases and electronic spectra of topological insulator thin films from GW calculations — •TOBIAS FÖRSTER, PETER KRÜGER, and MICHAEL ROHLFING — Institut für Festkörpertheorie, Westfälische Wilhelms-Universität, 48149 Münster, Germany

Talk O 62.7 Wed 17:00 H24

Steady-State Density Functional Theory for Finite Bias Conductances — •STEFAN KURTH^{1,2} and GIANLUCA STEFANUCCI^{3,4} —

¹Dept. of Materials Physics, Univ. of the Basque Country UPV/EHU, San Sebastian, Spain — ²IKERBASQUE, Basque Foundation for Science, Bilbao, Spain — ³Dept. of Physics, Univ. of Rome "Tor Vergata", Rome, Italy — ⁴INFN, Frascati, Italy

Talk

O 62.8 Wed 17:15 H24

Revealing the intra-molecular origin of inelastic electron tunneling signal by means of first-principles calculations — •GIUSEPPE FOTI and HECTOR VAZQUEZ — Institute of Physics, Academy of Sciences of the Czech Republic, Cukrovarnicka 10, Prague, Czech Republic

Talk

O 62.9 Wed 17:30 H24

An efficient real-time time-dependent density functional theory method and its applications — •ZHI WANG¹, SHU-SHEN LI², and LIN-WANG WANG³ — ¹Institut für Physikalische Chemie, Uni-Hamburg, Hamburg, Germany — ²Institute of Semiconductors, Chinese Academy of Sciences, Beijing, China — ³Lawrence Berkeley National Laboratory, Berkeley, United States

Talk

O 62.10 Wed 17:45 H24

Nonadiabatic geometric phase of a pseudorotating triatomic molecule — •RYAN REQUIST and EBERHARD K. U. GROSS — Max Planck Institute of Microstructure Physics, Halle (Saale), Germany

Talk

O 62.11 Wed 18:00 H24

Theoretical investigations of magnetically doped topological insulators — •JAN MINÁR^{1,2}, JURGEN BRAUN¹, and HUBERT EBERT¹ — ¹LMU München, Germany — ²University of West Bohemia, Plzen, Czech Rep.

Talk

O 62.12 Wed 18:15 H24

Trions in a carbon nanotube from ab-initio many-body perturbation theory — •THORSTEN DEILMANN, MATTHIAS DRÜPPEL, and MICHAEL ROHLFING — Institut für Festkörpertheorie, Universität Münster, Germany

O 66: Frontiers of Electronic Structure Theory: Focus on Topology and Transport

Wednesday 18:15–20:30

Poster A

Poster

O 66.1 Wed 18:15 Poster A

Improving anharmonic vibrational calculations from first principles — •JOSEPH C.A. PRENTICE, BARTOMEU MONSERRAT, and RICHARD J. NEEDS — TCM Group, Cavendish Laboratory, University of Cambridge, UK

Poster

O 66.2 Wed 18:15 Poster A

Towards a practical implementation of second-order Møller-Plesset perturbation theory for solids — •XIANGYUE LIU, ARVID CONRAD IHRIG, SERGEY LEVCHENKO, IGOR YING ZHANG, and MATTHIAS SCHEFFLER — *Fritz-Haber-Institut der MPG, Berlin, DE*

Poster

O 66.3 Wed 18:15 Poster A

Application of the exact exchange functional to magnetic metals within the FLAPW method — •MAX NUSSPICKEL¹, MARKUS BETZINGER¹, CHRISTOPH FRIEDRICH¹, ANDREAS GÖRLING², and STEFAN BLÜGEL¹ — ¹Peter Grünberg Institut and Institute for Advanced Simulation, Forschungszentrum Jülich and JARA, Germany — ²Lehrstuhl für Theoretische Chemie, Universität Erlangen-Nürnberg, Germany

Poster

O 66.4 Wed 18:15 Poster A

Electric switchable giant Rashba-type spin splitting in bulk

PbS — •BIN SHAO¹, WENHUI DUAN², and THOMAS FRAUENHEIM¹ — ¹BCCMS, University of Bremen, Bremen, Germany — ²Institute for Advanced Study, Tsinghua University, Beijing, China

Poster

O 66.5 Wed 18:15 Poster A

GW+fRG: Towards an fRG enhancement of ab initio calculations — •JANNIS EHRLICH^{1,2}, CARSTEN HONERKAMP¹, CHRISTOPH FRIEDRICH², and STEFAN BLÜGEL² — ¹Institut für theoretische Festkörperphysik, RWTH Aachen University, D-52056 Aachen, Germany — ²PGI-1 and IAS-1, FZJ & JARA, D-52425 Jülich, Germany

Poster

O 66.6 Wed 18:15 Poster A

The quantum anomalous Hall effect in HgMnTe — •JAN BÖTTCHER, CHRISTOPH KLEINER, and EWELINA M. HANKIEWICZ — Uni Würzburg, Institut für Theoretische Physik und Astrophysik, Germany

Poster

O 66.7 Wed 18:15 Poster A

Nonconventional screening of the Coulomb interaction in low-dimensional semiconductors and insulators — ERSOY SASIOGLU, •CHRISTOPH FRIEDRICH, and STEFAN BLÜGEL — Peter Grünberg Institut and Institute for Advanced Simulation, Forschungszentrum Jülich and JARA, 52425 Jülich, Germany

O 80: Frontiers of Electronic Structure Theory: Focus on Topology and Transport IV

Thursday 10:30–13:15

H24

Topical Talk

O 80.1 Thu 10:30 H24

Transport phenomena in broken-symmetry metals: Geometry, topology, and beyond — •IVO SOUZA — Universidad del País Vasco, San Sebastián, Spain

Topical Talk

O 80.2 Thu 11:00 H24

Dirac Fermions in Antiferromagnetic Semimetal — •PEIZHE TANG, QUAN ZHOU, GANG XU, and SHOU-CHENG ZHANG — Department of Physics, McCullough Building, Stanford University, Stanford, California 94305-4045, USA

Talk

O 80.3 Thu 11:30 H24

Spin Hall effect in non-collinear antiferromagnets Mn₃X (X=Sn, Ge, Ga) — •YANG ZHANG^{1,3}, YAN SUN¹, CLAUDIA FELSER¹, and BINGHAI YAN^{1,2} — ¹Max Planck Institute for Chemical Physics of Solids, 01187 Dresden, Germany — ²Max Planck Institute for the Physics of Complex Systems, 01187 Dresden, Germany — ³Leibniz Institute for Solid State and Materials Research, 01069 Dresden, Germany

Talk

O 80.4 Thu 11:45 H24

Electronic reconstruction and anomalous Hall conductivity in 3d-oxide honeycomb lattices within the corundum structure — •SANTU BAIDYA and ROSSITZA PENTCHEVA — Fakultät für Physik and Center of Nanointegration (CENIDE), Universität Duisburg-Essen, 47057 Duisburg

Talk

O 80.5 Thu 12:00 H24

Anomalous hall effect in triangular antiferromagnetic ordered structure — •HAO YANG¹, SUN YAN², FELSER CLAUDIA², PARKIN

STUART¹, and BINGHAI YAN² — ¹Max Planck Institute of Microstructure Physics, 06120 Halle(Saale), Germany — ²Max Planck Institute for Chemical Physics of Solids, 01187 Dresden, Germany

Talk

O 80.6 Thu 12:15 H24

Anomalous Hall conductivity and orbital magnetization as local quantities — •ANTIMO MARAZZO¹ and RAFFAELE RESTA² — ¹THEOS, EPF Lausanne, Switzerland — ²Dipartimento di Fisica, Univ. Trieste, Italy

Talk

O 80.7 Thu 12:30 H24

Laser induced DC photocurrents in a Topological Insulator thin film — •THOMAS SCHUMANN¹, NINA MEYER¹, GREGOR MUSSLER⁴, EVA SCHMORANZEROVÁ², DAGMAR BUTKOVICOVÁ², HELENA REICHLOVÁ³, LUKAS BRAUN⁵, CHRISTIAN FRANZ⁶, MICHAEL CZERNER⁶, PERTR NĚMEC², DETLEV GRÜTZMACHER⁴, TOBIAS KAMPFRATH⁵, CHRISTIAN HEILIGER⁶, and MARKUS MÜNzenBERG¹ — ¹IIfP, EMA University Greifswald, Germany — ²MFF, Charles University, Prague, Czech Republic — ³FZU, Prague, Czech Republic — ⁴PGI-9, Jülich, Germany — ⁵FHI Berlin, Germany — ⁶University of Giessen, Germany

Talk

O 80.8 Thu 12:45 H24

Robustness of exchange protocols of Majorana fermions in quantum wire networks — •CHRISTIAN TUTSCHKU¹, ROLF W. REINTHALER¹, CHAO LEI², ALLAN H. MACDONALD², and EWELINA M. HANKIEWICZ¹ — ¹Faculty of Physics and Astrophysics, University of Würzburg, Würzburg, Germany — ²Department of Physics, University of Texas at Austin, USA

O 88: Frontiers of Electronic Structure Theory: Focus on Topology and Transport V

Thursday 15:00–18:15

H24

Talk	O 88.2 Thu 15:15 H24	<i>Ab-initio calculation of Raman spectra of graphene-based materials</i> — •ALBIN HERTRICH, CATERINA COCCHI, PASQUALE PAVONE, and CLAUDIA DRAXL — Department of Physics, Humboldt-Universität zu Berlin, Germany
Talk	O 88.3 Thu 15:30 H24	<i>Exciton dispersion in layered and 2D systems</i> — •FRANCESCO SOTTILE ^{1,2} , GIORGIA FUGALLO ^{1,2} , PIERLUIGI CUDAZZO ^{1,2} , and MATTEO GATTI ^{1,2,3} — ¹ Laboratoire des Solides Irradiés, École Polytechnique, CNRS, CEA-IRAMIS, Université Paris-Saclay, F-91128 Palaiseau, France — ² European Theoretical Spectroscopy Facility — ³ Synchrotron SOLEIL, L'Orme des Merisiers, Saint-Aubin, Boîte Postale 48, F-91192 Gif-sur-Yvette, France
Talk	O 88.4 Thu 15:45 H24	<i>Explicitly correlated self consistent field theory</i> — •CHRISTIAN LASAR and THORSTEN KLÜNER — Universität Oldenburg
Talk	O 88.5 Thu 16:00 H24	<i>Representing energy landscapes by combining neural networks and the empirical valence bond method</i> — •SINJA KLEES ¹ , RAMONA UFER ² , VOLODYMYR SERGIEVSKYI ² , ECKHARD SPOHR ² , and JÖRG BEHLER ¹ — ¹ Lehrstuhl für Theoretische Chemie, Ruhr-Universität Bochum, D-44780 Bochum, Germany — ² Lehrstuhl für Theoretische Chemie, Universität Duisburg-Essen, D-45141 Essen, Germany
Talk	O 88.6 Thu 16:15 H24	<i>CELL: a python package for cluster expansions with large parent cells</i> — •SANTIAGO RIGAMONTI ¹ , MARIA TROPPENZ ¹ , CHRISTOPHER SUTTON ² , LUCA M. GHIRINGHELLI ² , and CLAUDIA DRAXL ¹ — ¹ Humboldt-Universität zu Berlin — ² Fritz-Haber-Institut der Max-Planck-Gesellschaft
Talk	O 88.7 Thu 16:30 H24	<i>Structural and electronic properties of the thermoelectric clathrates Ba₈Al_xSi_{46-x} and Sr₈Al_xSi_{46-x}</i> — •MARIA TROPPENZ, SANTIAGO RIGAMONTI, and CLAUDIA DRAXL — Humboldt-Universität zu Berlin
Talk	O 88.8 Thu 16:45 H24	<i>Layer-resolved calculated vibrations at gold surfaces</i> — •ANDREI POSTNIKOV ¹ and KAMIL MOLDOSANOV ² — ¹ Université de Lorraine, LCP-A2MC, Metz, France — ² Kyrgyz-Russian Slavic University, Bishkek, Kyrgyzstan
		<i>Electronic structure, mechanical and thermodynamic properties of Actinium from first-principles</i> — •BARBORA KACEROVSKA ¹ and DOMINIK LEGUT ² — ¹ Nanotechnology, VSB-TU Ostrava, CZ 708 33 Ostrava, Czech Republic — ² IT4Innovations Center, VSB-TU Ostrava, CZ 708 33 Ostrava, Czech Republic
		<i>Interaction of Tritium and Chlorine 36 with defects in Graphite: Insights from Theory</i> — •CHRISTOPH LECHNER ¹ , PHILIPPE BARANEK ¹ , and HOLGER VACH ² — ¹ EDF Lab Les Renardières, Avenue des Renardières, F-77818 Moret-sur-Loing Cedex, France — ² CNRS-LPICM, Ecole Polytechnique, F-91128 Palaiseau Cedex, France

O 99: Symposium on Frontiers of Electronic Structure Theory: Focus on Topology and Transport

Friday 09:30–12:15

H1

Invited Talk	O 99.1 Fri 9:30 H1	KIEWICZ — Wuerzburg University
Intrinsic Transport Coefficients and Momentum Space Berry Curvatures	— •ALLAN H MACDONALD — University of Texas at Austin, Austin TX, USA	session break
Invited Talk	O 99.2 Fri 10:00 H1	<i>Engineering Topological Quantum States: From 1D to 2D.</i> — •JELENA KLINOVAJA — University of Basel, Switzerland
Berry phase linked spin-orbit torques in Ferromagnetic and Antiferromagnetic systems	— •JAIRO SINOVA — Johannes Gutenberg Universität Mainz, Staudingerweg 7, 55128 Mainz Germany	<i>Invited Talk</i>
Invited Talk	O 99.3 Fri 10:30 H1	O 99.4 Fri 11:15 H1
Transport in Topological Insulators and Topological Superconductors: In Search of Majorana Fermions	— •EWELINA HAN-	<i>Skyrmiions – Topological magnetization solitons for future spintronics</i> — •STEFAN BLÜGEL — Peter Grünberg Institut and Institute for Advanced Simulation, Forschungszentrum Jülich and JARA, D-52425 Jülich, Germany