Curriculum Vitae

Dr. Stanisaw Andrzej Galeski

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ACADEMIC ACTIVITIES:

2024-present	Independent research scientist, University of Bonn, Bonn, Germany.
2023-present	Visiting scientist at Dresden High Magnetic Field Laboratory, Dresden-Rosendorf Helmholtz Center, Dresden, Germany
2022-2023	Post-doctoral research scientist, Nanostructured Quantum Matter Group, University of Bonn, Bonn, Germany.
2019- 2022	Post-doctoral research scientist, Nanostructured Quantum Matter Group, Max-Planck Institute for Chemical Physics of Solids, Dresden, Germany.
2013-2018	Doctoral studies, Swiss Federal Institute of Technology in Zurich (ETHZ), Switzerland. Thesis advisor: prof. A. Zheludev
2011-2013	Master in Physics, Swiss Federal Institute of Technology in Zurich (ETHZ), Switzerland
2011	Research work for bachelor thesis, Institute of Physics, Polish Academy of Sciences, Poland
2010	Research internship, Center of Molecular and Macromolecular Studies, Polish Academy of Sciences, Poland
2009-2010	Erasmus exchange, Technical University of Eindhoven, Netherlands
2007-2011	Bachelor studies – individual study program in applied physics, Technical University of Lodz, Poland

TEACHING AND SUPERVISION ACTIVITIES:

2023	Lectures on superconductivity and magnetism in the 'Solid State Physics' master course at the University of Bonn
2019-present	Co-supervision of PhD students at the Nanostructured Quantum Matter group at Max-Planck Institute in Dresden and the University of Bonn.
2015-2018	Tutoring undergraduate students in the physics laboratory practicum.
2013-2018	Tutoring for graduate level courses: "Advanced Solid-State Physics", "Modern Topics in Solid State Physics".
2015-2017	Preparation of lecture material and tutoring an interdisciplinary graduate course "Physics in the smartphone"
2015-2016	Supervising student semester project.

INVITED TALKS:

2023	Invited seminar at the Max Planck Institute for the Structure and Dynamics of Matter, Hamburg, Germany. *Are quantum oscillations observable in phonon dominated thermal transport?.*
2023	Invited talk at the WE-Heraeus-Seminar: Interfacing Low and High-Energy Physics with Topological Matter, Physikzentrum Bad Honnef, Germany. *Electrons and phonons: unconventional transport in the Dirac semimetal $ZrTe_5$.*
2023	Invited seminar talk at Université PSL, Paris, France, *'Signatures of interactions in the topological semimetal $ZrTe_5$'*

2022 Invited seminar talk at the University of Goettingen, Goettingen, Germany, *'Signatures of interactions in the topological semimetal $ZrTe_5$'*

2022 Invited seminar talk Laboratoire National des Champs Magnétiques Intenses, Grenoble, France, *'Signatures of interactions in the topological semimetal $ZrTe_5$'*

2022 Invited talk at The European Microkelvin Platform Workshop (EMP), in Strbske Pleso, Slovakia *'Signatures of interactions in the topological semimetal $ZrTe_5$'*

2022 Invited talk at The European Magnetic Field Lab (EMFL) meeting in Grenoble, France *'Signatures of a magnetic-field-induced Lifshitz transition in the ultra-quantum limit of the topological semimetal $ZrTe_5$'.*

2022 Invited talk at The European Microkelvin Platform (EMP) online meeting, *'Interplay of Landau quantization and the Bloch- Gruneisen temperature in the Dirac semi-metals $ZrTe_5$ and $HfTe_5$'.*

2021 Invited talk at the CMPC workshop on diffuse scattering and correlated electron materials at DESY Hamburg, Germany, *'Quasi-quantized Hall effect in $ZrTe_5$'.*

REVIEW ACTIVITIES:

Journals Nature Physics, Nature Communications, ACS Nano, Communications Materials, Journal of Materials Chemistry C

SELECTED PUBLICATIONS:

2023 J. Gooth, S. Galeski, T. Meng., Quantum-Hall physics and three dimensions. *Rep. Prog. Phys*. 86 044501 (2023)

2023 R. Küchler, R. Wawrzynczak, H. Dawczak-Debicki, J. Gooth, S. Galeski. New applications for the world's smallest high-precision capacitance dilatometer and its stress-implementing counterpart. *Rev. Sci. Instr*. 94, 045108 (2023);

2022 S. Galeski et al., Signatures of a magnetic-field-induced Lifshitz transition in the ultra-quantum limit of the topological semimetal $ZrTe_5$. *Nat Commun.* 13, 7418 (2022).

2022 S. Galeski et al., LT-scaling in depleted quantum spin ladders. *Phys. Rev. Lett.* 128, 237201 (2022)

2021 S. Galeski et al., Origin of the quasi-quantized Hall effect in $ZrTe_5$. *Nat Comm.* 12, 3197 (2021).

2020 Galeski, S. et al. Unconventional Hall response in the quantum limit of $HfTe_5$. *Nat. Comm*. 11, 5926 (2020).