

Curriculum Vitae – Jacob Linder

Address: Department of Physics, NTNU
Norwegian University of Science and Technology
Høyskoleringen 5, 7491 Norway

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Education

2009	Ph.D in theoretical physics, NTNU, Norway. Supervisor: Asle Sudbø. Title: <i>Quantum transport and proximity effects in unconventional superconducting hybrid structures</i> .
2005	M.Sc. (sivilingeniør) in Physics and Mathematics with specialization in theoretical physics, Norwegian University of Science and Technology

Professional Employment

2013 – present	Professor of Physics, NTNU, Norway.
2010 – 2013	Associate Professor, NTNU, Norway.
2009 – 2010	Postdoctoral researcher, Norwegian University of Science and Technology.
2005 – 2009	Ph.D student with Prof. Asle Sudbø, Norwegian University of Science and Technology.

Major Awards and Grants

2022	Voted best lecturer by the students at the Faculty of Natural Sciences and Faculty of Information Technology and Electrical Engineering.
2021	Co-PI for research grant (8 mill. NOK), Research Council of Norway
2017	PI in a Center of Excellence grant (120 mill. NOK), Research Council of Norway
2016	Finalist for ERC Starting Grant, European Research Council.
2014-2018	Outstanding Academic Fellows Programme funding (3 mill. NOK), NTNU
2014-2018	Single PI for Young Research Talent grant (6 mill. NOK), Research Council of Norway
2012-2017	Co-recipient of Strategic Institute Program grant (12 mill. NOK)
2012	American Physical Society Outstanding Referee, APS
2010-2016	Main PI for research grant (7 mill. NOK), Research Council of Norway
2010	Yara's Birkeland Prize, national award for best Ph.D degree in physics
2010	National award for best Ph.D degree in the natural sciences, The Royal Norwegian Society of Sciences and Letters
2010	Award for best Ph.D degree in basic research, ExxonMobil Corporation
2009	Faculty prize for best Ph.D degree, Norwegian University of Science and Technology

Publications

Peer-reviewed Scientific Articles

2006 – present	Published around 200 papers, including around 20 papers in Physical Review Letters and Physical Review X and 2 papers in Reviews of Modern Physics. These papers have been cited 7000+ times with a <i>h</i> -index of 42 (Google Scholar, August 2023). These papers thematically fall into various fields of quantum condensed matter theory, including superconducting hybrid structures, magnetization dynamics, and Dirac/metamaterials.
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Peer-reviewed Books and Book Chapters

2017	Book. "Introduction to Quantum Mechanics" J. Linder, Bookboon, ISBN: 978-87-403-1814-2.
2017	Book. "Intermediate Quantum Mechanics" J. Linder, Bookboon, ISBN: 978-87-403-1783-1.
2017	Book. "Introduction to Particle Physics" J. Linder. Bookboon, ISBN: 978-87-403-1704-6.
2017	Book chapter. "Spin-orbit interactions, spin currents, and magnetization dynamics in superconductor/ferromagnet hybrids." J. Linder and S. Jacobsen. Published in <i>Superconductors at the Nanoscale: From Basic Research to Applications</i> , DeGruyter, 1 st edition, ISBN: 978-3-11-045680-6. Editors: R. Wördenweber, V. Moshchalkov, S. Bending, and F. Tafuri.
2016	Book chapter. "Superconducting Order in Magnetic Heterostructures." S. Jacobsen, J. A. Ouassou, and J. Linder. Published in <i>Advanced Magnetic and Optical Material Book Series</i> , Wiley-Scrivener USA, 1 st edition, ISBN: 978-1-119-24191-1.
2016	Book. "Introduction to Lagrangian & Hamiltonian Mechanics." J. Linder and I. H. Brevik. Bookboon, ISBN: 978-87-403-1249-2.
2010	Book chapter. "Interplay between Ferromagnetism and Superconductivity." J. Linder and A. Sudbø. Published in <i>Nanoscience and engineering in superconductivity</i> , Springer Verlag, 1 st edition. ISBN: 978-3-642-15136-1. Editors: V. Moshchalkov, R. Woerdenweber, and W. Lang.

Invited talks

2007-2019 Invited as speaker to more than 70 conferences, workshops, universities, and institutes, such as the International Conference on Superconductivity and Magnetism, the VORTEX conference series, and the Moscow International Symposium and Magnetism.

Supervision

Postdocs Dr. Jabir Ali Ouassou (Ph.D NTNU, Trondheim) 2021-2023
Dr. Sol Jacobsen (Ph.D University of Tasmania), 2014-2018

Ph.D students Erik Hodt (M. Sc NTNU, Trondheim), 2022-present
Johanne Tjernshaugen (M. Sc. NTNU, Trondheim), 2023-present

Dr. Eirik Fyhn (M. Sc. NTNU, Trondheim), 2019-present
Dr. Lina G. Johnsen (M. Sc. NTNU, Trondheim), 2019-present
Dr. Eirik Erlandsen (M.Sc, NTNU, Trondheim), 2018-2022 [co-supervisor]
Dr. Atousa Ghanbari (M.Sc IUST, Tehran), 2018-2022
Dr. Morten Amundsen (M.Sc. NTNU, Trondheim), 2016-2020
Dr. Øyvind Johansen (M.Sc. NTNU, Trondheim), 2016-2019 [co-supervisor]
Dr. Vetle K. Risinggård (M.Sc. NTNU, Trondheim), 2015-2019
Dr. Jabir Ali Ouassou (M.Sc. NTNU, Trondheim), 2015-2019
Dr. Camilla Espedal (M.Sc. NTNU, Trondheim), 2013-2017 [co-supervisor]
Dr. Daniele Toniolo (M.Sc. University of Padova), 2012-2015
Dr. Iryna Kulagina (M.Sc. Donetsk National University), 2011-2015
Dr. Mohammad Alidoust (M.Sc. University of Isfahan), 2011-2013
Dr. Henrik Enoksen (M.Sc. NTNU, Trondheim), 2010-2013 [co-supervisor]

Master students Supervised ~30 M.Sc students, out of which 15 continued in Ph.D positions and several won awards for best M.Sc. thesis in the natural sciences

Visitors Linde Olde Olthof, visiting Ph.D student from Cambridge, UK (2020)
Tatsuki Hashimoto, visiting Ph.D student from Nagoya, Japan (2016)
Gaetano Annunziata, visiting Ph.D student from Salerno, Italy (2010).

Teaching

2020 – present University lecturer and course responsible in “Quantum field theory”, NTNU.
2017 Published the free eBooks “Introduction to Quantum Mechanics”, “Intermediate Quantum Mechanics”, and “Introduction to Particle Physics”, Bookboon.

2016 – present University lecturer and course responsible in “Quantum Mechanics II”, NTNU.
2016 Published a free eBook on classical mechanics with I. H. Brevik, “Introduction to Lagrangian & Hamiltonian Mechanics”, Bookboon 1st edition, as well as a comprehensive series of YouTube-lectures on classical mechanics available freely online.

2012 – 2015 University lecturer and course responsible in “Particle Physics”, NTNU.
2011 – 2014 University lecturer and course responsible in “Classical Mechanics”, NTNU.
2010 Completed PEDUP pedagogical 6-month course, NTNU.

2005 – 2009 Teaching assistant in several lab courses on experimental physics, including mechanical physics, electromagnetism, and instrumentation/electronics.

2000 – 2005 Teaching assistant in several undergraduate courses on quantum mechanics, mathematics, and electromagnetism.

Professional Activities

Refereeing Nature, Science, Nature Materials, Nature Physics, Physical Review Letters, Physical Review X, Reviews of Modern Physics, Nature Communications, Nature Scientific Reports, Physical Review B, Physical Review Applied.

Project Evaluator Reviewer for project applications for the European Research Council, US Department of Energy, National Science Foundation (USA), Deutsche Forschungsgemeinschaft (GER), Israel Science Foundation (ISR), Portuguese National Funding Agency FCT for Science, Research, and Technology (POR), Czech Science Foundation (CZE), ++

Committees/Boards Editorial Board Member of Scientific Reports (2017 - present).
Member of the Management Committee for COST Action MP1201 “Novel functionalities through optimized confinement of condensates and fields”, (2012 - 2017).
Member of the Nordita Research Committee for Condensed Matter Physics, (2013 - 2017).
Editor for Material Physics in the Great Norwegian Encyclopedia (2017 – present).

Deputy Head of the Section of Theoretical Physics, NTNU (2014 – 2017).

Conference Organizer	Workshop <i>SUPERSPIN15: Superconducting Spintronics</i> (Trondheim, Norway). Organized together with M. Eschrig. Workshop <i>QuSpin 2017</i> (Trondheim, Norway). Organized together with A. Brataas, A. Sudbø, J. Wells, and S. Jacobsen. Workshop <i>QuSpin 2018</i> (Trondheim, Norway). Organized together with A. Brataas, A. Sudbø, J. Wells, and Karen-Elisabeth Sødahl. Workshop <i>QuSpin 2019</i> (Trondheim, Norway). Organized together with A. Brataas, A. Sudbø, J. Wells, and Karen-Elisabeth Sødahl.
Elected Memberships	Outstanding Academic Fellows programme (NTNU) Norwegian Academy of the Technical Sciences (NTVA)
Outreach Activities	Leader of the Scientific Outreach Committee, Department of Physics, NTNU (2013-2014)

Publication list

~200 papers, 7000+ citations, *h*-index 42 (August 2023).

E. H. Fyhn, A. Brataas, A. Qaiumzadeh, and J. Linder

Superconducting proximity effect and long-ranged triplets in dirty metallic antiferromagnets
Phys. Rev. Lett. 131, 076001 (2023)

C. Sun, A. Brataas, and J. Linder

Andreev reflection in altermagnets
Phys. Rev. B 108, 054511 (2023)

J. A. Ouassou, A. Brataas, and J. Linder

dc Josephson effect in altermagnets
Phys. Rev. Lett. 131, 076003 (2023)

E. W. Hodt, J. A. Ouassou, and J. Linder

Transient dynamics and quantum phase diagram for the square lattice Rashba-Hubbard model at arbitrary hole doping
Phys. Rev. B 107, 224427 (2023)

C. Gonzalez-Ruano, D. Caso, J. A. Ouassou, C. Tiusan, Y. Lu, J. Linder, and F. G. Aliev

Observation of magnetic state dependent thermoelectricity in superconducting spin valves
Phys. Rev. Lett. 130, 237001 (2023)

E. H. Fyhn, A. Brataas, A. Qaiumzadeh, and J. Linder

Quasiclassical theory for antiferromagnetic metals
Phys. Rev. B 107, 174503 (2023)

C. Sun and J. Linder

Spin-pumping from a ferromagnetic insulator to an unconventional superconductor with interfacial Andreev bound-states
Phys. Rev. B 107, 144504 (2023)

W. M.J. van Weerdenburg, A. Kamlapure, E. H. Fyhn, X. Huang, N. P. E. van Mullekom, M. Steinbrecher, P. Krogstrup, J. Linder, and A. A. Khajetoorians

Extreme enhancement of superconductivity in epitaxial aluminum near the monolayer limit
Sci. Adv. 9, eadf5500 (2023)

V. Falch and J. Linder

Giant anisotropy in the Josephson effect and switching of staggered order in antiferromagnets
Phys. Rev. B 106, 214511 (2022)

H. Göl and J. Linder

Effective quasiclassical models for odd-frequency superconductivity:
energy-inversion symmetry, preserved spectral weight, and Meissner response
Phys. Rev. B 106, 224506 (2022)

J. A. Ouassou, C. González-Ruano, D. Caso, F. Aliev, and J. Linder

Complete magnetic control over the superconducting thermoelectric effect
Phys. Rev. B 106, 094514 (2022)

J. Linder and M. Amundsen

Quasiclassical theory for spin-orbit coupled interfaces with spin-charge conversion
Phys. Rev. B 105, 064506 (2022)

E. H. Fyhn and J. Linder

Spin-orbit pumping
Phys. Rev. B 105, L020409 (2022)

A. Ghanbari, E. Erlandsen, A. Sudbø, and J. Linder

Going beyond the Clogston-Chandrasekhar limit in a flat-band superconductor
Phys. Rev. B 105, L060501 (2022)

L. A. B. Olde Olthof, L. G. Johnsen, J. W. A. Robinson, and J. Linder

Controllable enhancement of p-wave superconductivity via magnetic coupling to a conventional superconductor
Phys. Rev. Lett. 127, 267001 (2021)

L. G. Johnsen and J. Linder

Spin injection and spin relaxation in odd-frequency superconductors
Phys. Rev. B 104, 144513 (2021)

L. G. Johnsen, H. T. Simensen, A. Brataas, and J. Linder

Magnon spin current induced by triplet Cooper pair supercurrents
Phys. Rev. Lett. 127, 207001 (2021)

H. Alpern, M. Amundsen, R. Hartmann, N. Sukenik, A. Spuri, S. Yochelis, T. Prokscha, V. Gutkin, E. Scheer, J. Linder, Z. Salman, O. Millo, Y. Paltiel, and A. Di Bernardo

Unconventional Meissner screening induced by chiral molecules in a conventional superconductor
Phys. Rev. Materials 5, 114801 (2021)

A. Ghanbari and J. Linder

RKKY interaction in a spin-split superconductor
Phys. Rev. B 104, 094527 (2021)

C. González-Ruano, D. Caso, L. G. Johnsen, C. Tiusan, M. Hehn, N. Banerjee, J. Linder, and F. G. Aliev

Superconductivity assisted change of the perpendicular magnetic anisotropy in V/MgO/Fe junctions
Sci. Rep. 11, 19041 (2021)

A. Ghanbari, E. Erlandsen, and J. Linder

The effect of midgap states on the magnetic exchange interaction mediated by a d-wave superconductor
Phys. Rev. B 104, 054502 (2021)

E. H. Fyhn and J. Linder

Spin-pumping in superconductor-antiferromagnetic insulator bilayers
Phys. Rev. B 103, 134508 (2021)

E. H. Fyhn and J. Linder

Temporarily enhanced superconductivity from magnetic fields
Phys. Rev. B 103, L100502 (2021)

L. G. Johnsen, S. H. Jacobsen, and J. Linder

Magnetic control of superconducting heterostructures using compensated antiferromagnets
Phys. Rev. B 103, L060505 (2021)

T. Dvir, A. Zalic, E. H. Fyhn, M. Amundsen, T. Taniguchi, K. Watanabe, J. Linder, and H. Steinberg

Zeeman and orbital effects in planar graphene-NbSe₂ Josephson junctions in a parallel magnetic field
Phys. Rev. B 103, 115401 (2021)

A. Ghanbari, V. Risinggård, and J. Linder

Self-consistent solution for the magnetic exchange interaction mediated by a superconductor
Sci. Rep. 11, 5028 (2021)

H. T. Simensen, L. G. Johnsen, J. Linder, and A. Brataas

Spin pumping between noncollinear ferromagnetic insulators through thin superconductors
Phys. Rev. B 103, 024524 (2021)

M. Amundsen and J. Linder

Spin accumulation induced by a singlet supercurrent
Phys. Rev. B 102, 100506(R) (2020).

L. G. Johnsen, K. Svalland, and J. Linder

Controlling the superconducting transition by rotation of an inversion symmetry breaking axis
Phys. Rev. Lett. 125, 107002 (2020).

C. González-Ruano, L. G. Johnsen, D. Caso, C. Tiusan, M. Hehn, N. Banerjee, J. Linder, F. G. Aliev

Superconductivity-induced change in magnetic anisotropy in epitaxial ferromagnet-superconductor hybrids with spin-orbit interaction
Phys. Rev. B 102, 020405(R) (2020)

E. H. Fyhn, M. Amundsen, A. Zalic, T. Dvir, H. Steinberg, J. Linder

Combined Zeeman and orbital effect on the Josephson effect in rippled graphene
Phys. Rev. B 102, 024510 (2020)

Y. Li, M. Amado, T. Hyart, G. P. Mazur, V. Risinggård, T. Wagner, L. McKenzie Sell, G. Kimbell, J. Wunderlich, J. Linder, J. W. A. Robinson

Transition between canted antiferromagnetic and spin-polarized ferromagnetic quantum Hall states in graphene on a ferrimagnetic insulator
Phys. Rev. B 101, 241405(R) (2020) [Editors' Suggestion]

J. A. Ouassou, W. Belzig, and J. Linder

Prediction of a paramagnetic Meissner effect in voltage-biased superconductor/normal-metal bilayers
Phys. Rev. Lett. 124, 047001 (2020).

J. Linder and A. V. Balatsky

Odd-frequency superconductivity
Rev. Mod. Phys. 91, 045005 (2019)

J. Eskilt, M. Amundsen, and N. Banerjee, and J. Linder

Long-ranged triplet supercurrent in a single in-plane ferromagnet with spin-orbit coupled contacts to superconductors
Phys. Rev. B 100, 224519 (2019)

E. Fyhn and J. Linder

Controllable Vortex Loops in Superconducting Proximity Systems
Phys. Rev. B 100, 214503 (2019)

E. H. Fyhn and J. Linder

Superconducting vortices in half-metals
Phys. Rev. B 100, 224508 (2019)

J. A. Ouassou, J. W. A. Robinson, and J. Linder

Controlling spin supercurrents via nonequilibrium spin injection
Sci. Rep. 9, 12731 (2019)

M. Amundsen and J. Linder

Quasiclassical theory for interfaces with spin-orbit coupling
Phys. Rev. B 100, 064502 (2019)

J. A. Ouassou, and J. Linder

Voltage control of superconducting exchange interaction and anomalous Josephson effect
Phys. Rev. B 99, 214513 (2019)

V. Risinggård and J. Linder

Direct and inverse superspin Hall effect in two-dimensional systems: Electrical detection of spin supercurrents
Phys. Rev. B 99, 174505 (2019)

Ø. Johansen, V. Risinggård, A. Sudbø, J. Linder, and A. Brataas

Current control of magnetism in two-dimensional Fe₃GeTe₂
Phys. Rev. Lett. 122, 217203 (2019)

L. G. Johnsen, N. Banerjee, and J. Linder

Magnetisation reorientation due to superconducting transition in heavy metal heterostructures
Phys. Rev. B 99, 134516 (2019)

H. Hugdahl, M. Amundsen, J. Linder, and A. Sudbø

Inverse proximity effect in an s-wave and d-wave superconductor coupled to topological insulators

Phys. Rev. B 99, 094505 (2019)

J. A. Ouassou, and J. Linder

Voltage-induced superconductivity in high magnetic fields

Phys. Rev. B 98, 144509 (2018)

M. Amundsen, H. Hugdahl, A. Sudbø, and J. Linder

Vortex spin-valve on a topological insulator

Phys. Rev. B 98, 144505 (2018)

N. Banerjee, J. A. Ouassou, Y. Zhu, N. A. Stelmashenko, J. Linder, and M. G. Blamire

Controlling the superconducting transition by spin-orbit coupling

Phys. Rev. B 97, 184521 (2018)

M. Amundsen, J. A. Ouassou, and J. Linder

Field-free nucleation of antivortices and giant vortices in non-superconducting materials

Phys. Rev. Lett. 120, 207001 (2018)

H. T. Simensen and J. Linder

Tunable superconducting critical temperature in ballistic hybrid structures with strong spin-orbit coupling

Phys. Rev. B 97, 054518 (2018)

V. Risinggård, E. Tveten, A. Brataas, and J. Linder

Equations of motion and frequency dependence of magnon-induced domain wall motion

Phys. Rev. B 96, 174441 (2017)

S. H. Jacobsen, and J. Linder

Quantum kinetic equations and anomalous non-equilibrium Cooper pair spin accumulation in Rashba wires with Zeeman splitting

Phys. Rev. B 96, 134513 (2017)

T. Hashimoto, A. A. Golubov, Y. Tanaka, and J. Linder

Tunability of Andreev levels via spin-orbit coupling in Zeeman-split Josephson junctions

Phys. Rev. B 96, 134508 (2017)

K. Lahabi, M. Amundsen, J. A. Ouassou, E. Beukers, M. Pleijster, J. Linder, P. Alkemade, J. Aarts

Controlling supercurrents and their spatial distribution in ferromagnets

Nat. Commun. 8, 2056 (2017)

S. Charpentier, L. Galletti, G. Kunakova, R. Arpaia, Y. Song, R. Bahdadi, S. M. Wang, A. Kalaboukhov, E. Olsson, F. Tafuri, D. Golubev, J. Linder, T. Bauch, and F. Lombardi

Unconventional superconductivity on the surface states of Bi_2Te_3

Nat. Commun. 8, 2019 (2017)

J. A. Ouassou, A. Pal, M. G. Blamire, M. Eschrig, and J. Linder

Triplet Cooper pairs induced in diffusive s-wave superconductors interfaced with strongly spin-polarized magnetic insulators or half-metallic ferromagnets

Sci. Rep. 7, 1932 (2017)

M. E. Bathen and J. Linder

Spin Seebeck effect and thermoelectric phenomena in superconducting hybrids with magnetic textures or spin-orbit coupling

Sci. Rep. 7, 41409 (2017)

M. Amundsen, J. A. Ouassou, and J. Linder

Analytically determined topological phase diagram of the proximity-induced gap in diffusive n-terminal Josephson junctions

Sci. Rep. 7, 40578 (2017)

A. Pal, J. A. Ouassou, M. Eschrig, J. Linder, M. G. Blamire

Spectroscopic evidence of odd frequency superconducting order

Sci. Rep. 7, 40604 (2017)

A. Di Bernardo, O. Millo, M. Barbone, H. Alpern, Y. Kalcheim, U. Sassi, A. K. Ott, D. De Fazio, D. Yoon, M. Amado, A. C. Ferrari, J. Linder, J. W. A. Robinson

p-wave triggered superconductivity in single layer graphene on an electron-doped oxide superconductor

Nat. Commun. 8, 14024 (2017)

J. Linder, M. Amundsen, and V. Risinggård

Intrinsic Superspin Hall Current

Phys. Rev. B 96, 094512 (2017)

J. A. Ouassou, S. H. Jacobsen, and J. Linder

Conservation of spin supercurrents in superconductors

Phys. Rev. B 96, 094505 (2017)

J. A. Ouassou and J. Linder

Spin-switch Josephson junctions with magnetically tunable $\sin(\delta\phi/n)$ current-phase shape

Phys. Rev. B 96, 064516 (2017)

M. Amundsen and J. Linder

Supercurrent Vortex Pinball via a Triplet Cooper Pair Inverse Edelstein Effect

Phys. Rev. B 96, 064508 (2017)

H. G. Hugdal, J. Linder, and S. H. Jacobsen

Quasiclassical theory for the superconducting proximity effect in Dirac materials

Phys. Rev. B 95, 235403 (2017)

J. Linder and T. Yokoyama

Anisotropic Andreev reflection and Josephson effect in ballistic phosphorene

Phys. Rev. B 95, 144515 (2017)

V. Risinggård and J. Linder

Universal Absence of Walker Breakdown and Linear Current-Velocity Relation via Spin-Orbit Torques in Coupled and Single Domain Wall Motion

Phys. Rev. B 95, 134423 (2017)

D. Kuzmanovski, J. Linder, and A. Black-Schaffer

Quantum Ground State Control in Superconductor-Silicene Structures: $0-\pi$ transitions, ϕ_0 -junctions, and Majorana bound states

Phys. Rev. B 94, 180505(R) (2016)

J. Linder and M. E. Bathen

Spin caloritronics with superconductors: Enhanced thermoelectric effects, generalized Onsager response-matrix, and thermal spin currents

Phys. Rev. B 93, 224509 (2016)

C. Espedal, T. Yokoyama, and J. Linder

Anisotropic Paramagnetic Meissner Effect by Spin-Orbit Coupling

Phys. Rev. Lett. 116, 127002 (2016)

J. Linder and K. Halterman

Dynamical tuning between nearly perfect reflection, absorption, and transmission of light via graphene/dielectric structures

Sci. Rep. 6, 38141 (2016)

J. Linder, M. Amundsen, and J. A. Ouassou

Microwave control of the superconducting proximity effect and minigap

Sci. Rep. 6, 38739 (2016)

Ø. Johansen and J. Linder

Current driven spin-orbit torque oscillator: ferromagnetic and antiferromagnetic coupling

Sci. Rep. 6, 33845 (2016)

V. Risinggård, I. Kulagina, and J. Linder

Electric field control of magnon-induced magnetization dynamics in multiferroics

Sci. Rep. 6, 31800 (2016)

J. Linder and K. Halterman

Graphene-based extremely wide-angle tunable metamaterial absorber

Sci. Rep. 6, 31225 (2016)

J. A. Ouassou, A. Di Bernardo, J. W. A. Robinson, and J. Linder

Electric control of superconducting transition through a spin-orbit coupled interface

Sci. Rep. 6, 29312 (2016)

S. Jacobsen, I. Kulagina, and J. Linder

Superconducting spin flow with spin-flip immunity using a single homogeneous ferromagnet

Sci. Rep. 6, 23926 (2016)

M. Amundsen and J. Linder

General solution of 2D and 3D superconducting quasiclassical systems: coalescing vortices and nanoisland geometries
Sci. Rep. 6, 22765 (2016)

E. Tveten, T. Muller, J. Linder, and A. Brataas

Intrinsic Magnetization of Antiferromagnetic Textures
Phys. Rev. B 93, 104408 (2016)

T. Yokoyama and J. Linder

Josephson effect through magnetic skyrmions
Phys. Rev. B 92, 060503(R) (2015)

A. Di Bernardo, S. Diesch, Y. Gu, J. Linder, G. Divitini, C. Ducati, E. Scheer, M.G. Blamire, J. W. A. Robinson

Signature of Magnetic-Dependent Gapless Odd frequency States at Superconductor/Ferromagnet Interfaces
Nat. Commun. 6, 8053 (2015)

J. Linder and J. W. A. Robinson

Strong odd-frequency pairing correlations in fully gapped Zeeman-split superconductors
Sci. Rep. 5, 15483 (2015)

J. Linder and J. W. A. Robinson

Superconducting Spintronics
Nat. Phys. 11, 307 (2015)

S. Jacobsen, J. Ouassou, and J. Linder

Critical temperature and tunneling spectroscopy of superconductor-ferromagnet hybrids with intrinsic Rashba-Dresselhaus spin-orbit coupling
Phys. Rev. B 92, 024510 (2015)

A. Di Bernardo, Z. Salman, X.L. Wang, M. Amado, M. Egilmez, M.G. Flokstra, A. Suter, S. L. Lee, J. H. Zha, T. Prokscha, E. Morenzoni, M. G. Blamire, J. Linder, J.W.A. Robinson

Intrinsic paramagnetic Meissner effect due to s-wave odd frequency superconductivity
Phys. Rev. X 5, 041021 (2015)

E. Folven, J. Linder, O.V. Gomonay, A. Scholl, A. Doran, A.T. Young, S.T. Retterer, V.K. Malik, T. Tybell, Y. Takamura, and J.K. Grepstad

Controlling the switching field in nanomagnets by means of domain-engineered antiferromagnets
Phys. Rev. B 92, 094421 (2015)

I. Gomperud and J. Linder

Spin supercurrent and phase-tunable triplet Cooper pairs via magnetic insulators
Phys. Rev. B 92, 035416 (2015)

M. Eschrig, A. Cottet, W. Belzig, and J. Linder

General Boundary Conditions for Quasiclassical Theory of Superconductivity in the Diffusive Limit: Application to Strongly Spin-polarized Systems
New J. Phys. 17 083037 (2015)

S. Jacobsen and J. Linder

Giant triplet proximity effect in π -biased Josephson junctions with spin-orbit coupling
Phys. Rev. B 92, 024501 (2015)

J. Linder and K. Halterman

Superconducting Spintronics with Magnetic Domain Walls
Phys. Rev. B 90, 104502 (2014)

I. Kulagina and J. Linder

Spin Supercurrent, Magnetization Dynamics, and Phi-State in Spin-Textured Josephson Junctions
Phys. Rev. B 90, 054504 (2014)

J. Linder

Improved Domain Wall Dynamics and Magnonic Torques via Topological Insulators
Phys. Rev. B 90, 041412(R) (2014)

D. Toniolo and J. Linder

Superfluid Breakdown and Multiple Roton Gaps in Spin-Orbit Coupled Bose-Einstein Condensates on an Optical Lattice
Phys. Rev. A 89, 061605(R) (2014)

M. Alidoust, K. Halterman, and J. Linder

Meissner Effect Probing of Odd-Frequency Triplet Pairing in Superconducting Spin Valves
Phys. Rev. B 89, 054508 (2014)

J. Linder and T. Yokoyama

Superconducting Proximity Effect in Silicene: Spin-Valley Polarized Andreev Reflection, Non-Local Transport, and Supercurrent
Phys. Rev. B 89, 020504(R) (2014)

H. Enoksen, J. Linder, and A. Sudbø

Pressure-induced $0-\pi$ transitions and supercurrent crossover in antiferromagnetic weak links
Phys. Rev. B 88, 214512 (2013)

J. Linder and M. Alidoust

Asymmetric Ferromagnetic Resonance, Universal Walker Breakdown, and Counterflow Domain Wall Motion in the Presence of Multiple Spin-Orbit Torques
Phys. Rev. B 88, 064420 (2013)

H. Enoksen, A. Sudbø, and J. Linder

Anomalous Domain Wall Velocity and Walker Breakdown in Hybrid Systems with Anisotropic Exchange
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