

List of Publications 2023

- [1] Jonathan Agil, Rémy Battesti, and Carlo Rizzo, “On the speed of light in a vacuum in the presence of a magnetic field,” *The European Physical Journal H* **48**, 2 (2023).
- [2] J. Agil, R. Battesti, C. Rizzo, and D. Bakalov, “On the positronium g-factor,” *The European Physical Journal D* **77**, 196 (2023).
- [3] Jonathan Agil, Bruno Letourneur, Sylvie George, Rémy Battesti, and Carlo Rizzo, “Characterisation of the waveplate associated to layers in interferential mirrors,” *Eur. Phys. J. Appl. Phys.* **98**, 61 (2023).
- [4] Dai Aoki, Ilya Sheikin, Alix McCollam, Jun Ishizuka, Youichi Yanase, Gerard Lapertot, Jacques Flouquet, and Georg Knebel, “de Haas-van Alphen Oscillations for the Field Along c-axis in UTe₂,” *Journal of the Physical Society of Japan* **92**, 065002 (2023).
- [5] Vladimir B Arion, Oleg Palamarciuc, Sergiu Shova, Ghenadie Novitchi, and Peter Rapta, “Iron (III) complexes with ditopic macrocycles bearing crown-ether and bis (salicylidene) isothiosemicarbazide moieties,” *Journal of the Serbian Chemical Society* **88**, 1205 (2023).
- [6] Danis I. Badrtdinov, Carlos Rodriguez-Fernandez, Magdalena Grzeszczyk, Zhizhan Qiu, Kristina Vaklinova, Pengru Huang, Alexander Hampel, Kenji Watanabe, Takashi Taniguchi, Lu Jiong, Marek Potemski, Cyrus E. Dreyer, Maciej Koperski, and Malte Rösner, “Dielectric Environment Sensitivity of Carbon Centers in Hexagonal Boron Nitride,” *Small* **19**, 2300144 (2023).
- [7] G Bovone, F Buta, F Lonardo, T Bagni, M Bonura, D LeBoeuf, S C Hopkins, T Boutboul, A Ballarino, and C Senatore, “Effects of the oxygen source configuration on the superconducting properties of internally-oxidized internal-Sn Nb₃Sn wires,” *Superconductor Science and Technology* **36**, 095018 (2023).
- [8] Fan Bu, Yiyuan Zhang, Haoxiang Liu, Jun Wang, Eric Beaunon, Jinshan Li, and Yixuan He, “Magnetic field intensity dependent microstructure evolution and recrystallization behavior in a Co-B eutectic alloy,” *Journal of Materials Science & Technology* **138**, 93–107 (2023).
- [9] Bruno Cury Camargo, Banan El-Kerdi, Andrei Alaferdov, Shahar Zuri, Magdalena Birowska, and Walter Escoffier, “Self-doped graphite nanobelts,” *Carbon* **207**, 240–244 (2023).
- [10] Ramakanta Chapai, Maxime Leroux, Vincent Oliviero, David Vignolles, Nicolas Bruyant, M. P. Smylie, D. Y. Chung, M. G. Kanatzidis, W.-K. Kwok, J. F. Mitchell, and Ulrich Welp, “Magnetic Breakdown and Topology in the Kagome Superconductor CsV₃Sb₅ under High Magnetic Field,” *Physical Review Letters* **130**, 126401 (2023).
- [11] Sophia Chen, Nick Hauser, James Hester, Jonah Kanner, Kati Lassila-Perini, Andrea Lausi, Charles Simon, and Jon Taylor, “Opportunities and challenges in data sharing at multi-user facilities,” *Nature Reviews Physics* **5**, 83–86 (2023).
- [12] C. W. Cho, A. Pawbake, N. Aubergier, A. L. Barra, K. Mosina, Z. Sofer, M. E. Zhitomirsky, C. Faugeras, and B. A. Piot, “Microscopic parameters of the van der Waals CrSBr antiferromagnet from microwave absorption experiments,” *Physical Review B* **107**, 094403 (2023).
- [13] Nicolas Combe, Renaud Mathevet, Patrice Marchou, Charlotte Fabre, and Nabil Lamrani, “Études quantitatives des accélérations d’inertie avec un smartphone. Partie 1: accélération de Coriolis,” *Le Bulletin de l’Union des Professeurs de Physique et de Chimie* **117**, 51 (2023).
- [14] Nicolas Combe, Renaud Mathevet, Patrice Marchou, Charlotte Fabre, and Nabil Lamrani, “Études quantitatives des accélérations d’inertie avec un smartphone Partie 2 : accélération d’entraînement,” *Le Bulletin de l’Union des Professeurs de Physique et de Chimie* **117**, 173 (2023).
- [15] Nathan D. Cottam, Jonathan S. Austin, Chengxi Zhang, Amalia Patanè, Walter Escoffier, Michel Goiran, Mathieu Pierre, Camilla Coletti, Vaidotas Miseikis, Lyudmila Turyanska, and Oleg Makarovskiy, “Magnetic and Electric Field Dependent Charge Transfer in Perovskite/Graphene Field Effect Transistors,” *Advanced Electronic Materials* **9**, 2200995 (2023).
- [16] Oleseza Cuzan, Sergiu Shova, Ghenadie Novitchi, and Vasile Lozan, “Synthesis, characterization and magnetochemical study of cobalt, nickel and manganese coordination polymers,” *Inorganica Chimica Acta* **553**, 121526 (2023).
- [17] Kais Dhbaibi, Maxime Grasser, Haiet Douib, Vincent Dorcet, Olivier Cador, Nicolas Vanthuyne, François Riobé, Olivier Maury, Stéphane Guy, Amina Bensalah-Ledoux, Bruno Bagueard, Geert L. J. A. Rikken, Cyrille Train, Boris Le Guennic, Matteo Atzori, Fabrice Pointillart, and Jeanne Crassous, “Multifunctional Helicene-Based Ytterbium Coordination Polymer Displaying Circularly Polarized Luminescence, Slow Magnetic Relaxation and Room Temperature Magneto-Chiral Dichroism,” *Angewandte Chemie International Edition* **62**, e202215558 (2023).
- [18] Manuel Donaire, Nicolas Bruyant, and Geert L. J. A. Rikken, “Traveling Wave Enantioselective Electron Paramagnetic Resonance,” *J. Phys. Chem. Lett.* **14**, 4504–4509 (2023).
- [19] Gautier Duroux, Lucas Robin, Peizhao Liu, Emilie Dols, Matheus De Souza Lima Mendes, Sonia Buffière, Elodie Pardieu, Antoine Scalabre, Thierry Buffeteau, Sylvain Nlate, Reiko Oda, Maria Sara Raju, Matteo Atzori, Cyrille Train, Geert L. J. A. Rikken, Patrick Rosa, Elizabeth A. Hillard, and Emilie Pouget, “Induced circular dichroism from helical nano substrates to porphyrins: the role of chiral self-assembly,” *Nanoscale* **15**, 12095–12104 (2023).
- [20] Mateusz Dyksik, Dorian Beret, Michal Baranowski, Herman Duim, Sébastien Moyano, Katarzyna Posmyk, Adnen Mlayah, Sampson Adjokatse, Duncan K. Maude, Maria Antonietta Loi, Pascal Puech, and Paulina Plochocka, “Polaron Vibronic Progression Shapes the Optical Response of 2D Perovskites,” *Advanced Science* **2**, 2305182 (2023).

- [21] Eduard Galstyan, Janakiram Kadiyala, Mahesh Paidpilli, Chirag Goel, Jithin Sai Sandra, Vamsi Yerraguravagari, Goran Majkic, Rohit Jain, Siwei Chen, Yi Li, Robert Schmidt, Jan Jaroszynski, Griffin Bradford, Dmytro Abrahimov, Xavier Chaud, Jungbin Song, and Venkat Selvamanickam, “High critical current STAR wires with REBCO tapes by advanced MOCVD,” *Superconductor Science and Technology* **36**, 055007 (2023).
- [22] S. Gebert, C. Consejo, S. S. Krishtopenko, S. Ruffenach, M. Szola, J. Torres, C. Bray, B. Jouault, M. Orlita, X. Baudry, P. Ballet, S. V. Morozov, V. I. Gavrilenko, N. N. Mikhailov, S. A. Dvoretiskii, and F. Teppe, “Terahertz cyclotron emission from two-dimensional Dirac fermions,” *Nature Photonics* **17**, 244–249 (2023).
- [23] N. Gutierrez, J. Degallaix, D. Hofman, C. Michel, L. Pinard, J. Morville, R. Battesti, and G. Cagnoli, “Optical characterization of high performance mirrors based on cavity ringdown time measurements with 6 degrees of freedom mirror positioning,” *Review of Scientific Instruments* **94**, 105113 (2023).
- [24] A. Hötger, T. Amit, J. Klein, K. Barthelmi, T. Pelini, A. Delhomme, S. Rey, M. Potemski, C. Faugeras, G. Cohen, D. Hernangómez-Pérez, T. Taniguchi, K. Watanabe, C. Kastl, J. J. Finley, S. Refaely-Abramson, A. W. Holleitner, and A. V. Stier, “Spin-defect characteristics of single sulfur vacancies in monolayer MoS₂,” *npj 2D Materials and Applications* **7**, 30 (2023).
- [25] Teresa Insinna, Euan N. Basseby, Katharina Märker, Alberto Collauto, Anne-Laure Barra, and Clare P. Grey, “Graphite Anodes for Li-Ion Batteries: An Electron Paramagnetic Resonance Investigation,” *Chem. Mater.* **35**, 5497–5511 (2023).
- [26] Robert A. Jagt, Ivona Bravić, Lissa Eyre, Krzysztof Galkowski, Joanna Borowiec, Kavya Reddy Dudipala, Michal Baranowski, Mateusz Dyksik, Tim W. J. van de Goor, Theo Kreouzis, Ming Xiao, Adrian Bevan, Paulina Plochocka, Samuel D. Stranks, Felix Deschler, Bartomeu Monserrat, Judith L. MacManus-Driscoll, and Robert L. Z. Hoye, “Layered BiOI single crystals capable of detecting low dose rates of X-rays,” *Nature Communications* **14**, 2452 (2023).
- [27] Dipankar Jana, P. Kapuscinski, I. Mohelsky, D. Vaclavkova, I. Breslavetz, M. Orlita, C. Faugeras, and M. Potemski, “Magnon gap excitations and spin-entangled optical transition in the van der Waals antiferromagnet NiPS₃,” *Physical Review B* **108**, 115149 (2023).
- [28] Dipankar Jana, Piotr Kapuscinski, Amit Pawbake, Anastasios Papavasileiou, Zdenek Sofer, Ivan Breslavetz, Milan Orlita, Marek Potemski, and Clement Faugeras, “In-plane anisotropy in the van der Waals antiferromagnet FePSe₃ probed by magneto-Raman scattering,” *Physical Review B* **108**, 144415 (2023).
- [29] Jana Jurakova, Ondrej F. Fellner, Soren Schlittenhardt, Sarka Vavreckova, Ivan Nemeč, Radovan Herchel, Erik Cizmar, Vinicius Tadeu Santana, Milan Orlita, Denis Gentili, Giampiero Ruani, Massimiliano Cavallini, Petr Neugebauer, Mario Ruben, and Ivan Salitros, “Neutral cobalt(ii)-bis(benzimidazole)pyridine field-induced single-ion magnets for surface deposition,” *Inorg. Chem. Front.* **10**, 5406–5419 (2023).
- [30] T. Klein, A. Demuer, G. Seyfarth, H. Cercellier, L. Doussoulin, P. Toulemonde, A.-A. Haghighirad, F. Hardy, and C. Marcatat, “High-sensitivity specific heat study of the low-temperature–high-field corner of the H – T phase diagram of FeSe,” *Physical Review B* **107**, 224506 (2023).
- [31] F. Le Mardelé, J. Wyzula, I. Mohelsky, S. Nasrallah, M. Loh, S. Ben David, O. Toledano, D. Tolj, M. Novak, G. Eguchi, S. Paschen, N. Barišić, J. Chen, A. Kimura, M. Orlita, Z. Rukelj, Ana Akrap, and D. Santos-Cottin, “Evidence for three-dimensional Dirac conical bands in TlBiSSe by optical and magneto-optical spectroscopy,” *Physical Review B* **107**, L241101 (2023).
- [32] Nikoleta Malinová, Jana Jurakova, Barbora Brachnakova, Jana Dubnicka Midlikova, Erik Cizmar, Vinicius Tadeu Santana, Radovan Herchel, Milan Orlita, Ivan Mohelsky, Jan Moncol, Petr Neugebauer, and Ivan Salitros, “Magnetization Slow Dynamics in Mononuclear Co(II) Field-Induced Single-Molecule Magnet,” *Crystal Growth & Design* **23**, 2430–2441 (2023).
- [33] Renaud Mathevet, Simon Garrigou, Arnaud Le Houelleur, Emeryk Ablonet, Charlotte Fabre, Nabil Lamrani, Patrice Marchou, and Nicolas Combe, “Bifurcation fourche et ralentissement critique.” *Le Bulletin de l’Union des Professeurs de Physique et de Chimie* **117**, 573 (2023).
- [34] Renaud Mathevet, Nabil Lamrani, Charlotte Fabre, and Patrice Marchou, “Expériences quantitatives et symétries du champ magnétique,” *Le Bulletin de l’Union des Professeurs de Physique et de Chimie* **117**, 783 (2023).
- [35] I. Mohelsky, J. Wyzula, B. A. Piot, G. D. Gu, Q. Li, A. Akrap, and M. Orlita, “Temperature dependence of the energy band gap in ZrTe₅: Implications for the topological phase,” *Physical Review B* **107**, L041202 (2023).
- [36] Ciaran Mullan, Sergey Slizovskiy, Jun Yin, Ziwei Wang, Qian Yang, Shuigang Xu, Yaping Yang, Benjamin A. Piot, Sheng Hu, Takashi Taniguchi, Kenji Watanabe, Kostya S. Novoselov, A. K. Geim, Vladimir I. Fal’ko, and Artem Mishchenko, “Mixing of moiré-surface and bulk states in graphite,” *Nature* **620**, 756–761 (2023).
- [37] Alicia Negre, Renaud Mathevet, Benoit Chalopin, and Sébastien Massenet, “Unexpected optimal measurement protocols in Bell’s inequality violation experiments,” *American Journal of Physics* **91**, 64–73 (2023).
- [38] Swaroop Kumar Palai, Mateusz Dyksik, Nikodem Sokolowski, Mariusz Ciorga, Estrella Sánchez Viso, Yong Xie, Alina Schubert, Takashi Taniguchi, Kenji Watanabe, Duncan K. Maude, Alessandro Surrente, Michal Baranowski, Andres Castellanos-Gomez, Carmen Munuera, and Paulina Plochocka, “Approaching the Intrinsic Properties of Moiré Structures Using Atomic Force Microscopy Ironing,” *Nano Letters* **23**, 4749–4755 (2023).
- [39] Amit Pawbake, Thomas Pelini, Ivan Mohelsky, Dipankar Jana, Ivan Breslavetz, Chang-Woo Cho, Milan Orlita, Marek Potemski, Marie-Aude Measson, Nathan P. Wilson, Kseniia Mosina, Aljoscha Soll, Zdenek Sofer, Benjamin A. Piot, Mike E. Zhitomirsky, and Clement Faugeras, “Magneto-Optical Sensing of the Pressure Driven Magnetic Ground States in Bulk CrSBr,” *Nano Letters* **23**, 9587–9593 (2023).
- [40] Amit Pawbake, Thomas Pelini, Nathan P. Wilson, Kseniia Mosina, Zdenek Sofer, Rolf Heid, and Clement Faugeras, “Raman scattering signatures of strong spin-phonon coupling in the bulk magnetic van der Waals material CrSBr,” *Physical Review B* **107**, 075421 (2023).
- [41] Amit Pawbake, Sachin Rondiya, Dattatray Late, Mohit Prasad, and Sandesh Jadkar, “Hot wire-CVD grown molybdenum disulfide (MoS₂) thin films for photodetector and humidity sensing applications,” *Journal of Materials Science: Materials in Electronics* **34**, 1354 (2023).

- [42] S. Polatkan, E. Uykur, I. Mohelsky, J. Wyzula, M. Orlita, C. Shekhar, C. Felser, M. Dressel, and A. V. Pronin, "Exchange gap in GdPtBi probed by magneto-optics," *Physical Review B* **108**, L201201 (2023).
- [43] S. Polatkan, E. Uykur, J. Wyzula, M. Orlita, C. Shekhar, C. Felser, M. Dressel, and A. V. Pronin, "Magneto-optical response of the Weyl semimetal NbAs: Experimental results and hyperbolic-band computations," *Physical Review B* **108**, L241201 (2023).
- [44] Karolina Ewa Polczynska, Simon Le Denmat, Takashi Taniguchi, Kenji Watanabe, Marek Potemski, Piotr Kossacki, Wojciech Pacuski, and Jacek Kasprzak, "Coherent imaging and dynamics of excitons in MoSe₂ monolayers epitaxially grown on hexagonal boron nitride," *Nanoscale* **15**, 6941–6946 (2023).
- [45] Oliver Portugall, "Étonnante physique," (CNRS Édition, 2023) Chap. Les champs magnétiques dialoguent avec la matière, editor Séverine Martrenchard, Edition: EAN13: 9782271148902.
- [46] Katarzyna Posmyk, Mateusz Dyksik, Alessandro Surrente, Duncan K. Maude, Natalia Zawadzka, Adam Babinski, Maciej R. Molas, Watcharaphol Paritmongkol, Mirosław Maczka, William A. Tisdale, Paulina Plochocka, and Michał Baranowski, "Exciton Fine Structure in 2D Perovskites: The Out-of-Plane Excitonic State," *Advanced Optical Materials*, 2300877 (2023).
- [47] Katarzyna Posmyk, Mateusz Dyksik, Alessandro Surrente, Katarzyna Zalewska, Maciej Smiertka, Ewelina Cybula, Watcharaphol Paritmongkol, William A. Tisdale, Paulina Plochocka, and Michał Baranowski, "Fine Structure Splitting of Phonon-Assisted Excitonic Transition in (PEA)₂PbI₄ Two-Dimensional Perovskites," *Nanomaterials* **13**, 1119 (2023).
- [48] P. Pugnât, R. Barbier, C. Berriaud, F. Debray, C. Grandclément, B. Hervieu, S. Krämer, Y. Krupko, F. Molinié, M. Pelloux, R. Pfister, L. Ronayette, and H. J. Schneider-Muntau, "Commissioning Tests of the 43+T Grenoble Hybrid Magnet," *IEEE Transactions on Applied Superconductivity* **34**, 1–5 (2023).
- [49] Maria Sara Raju, Kais Dhbaibi, Maxime Grasser, Vincent Dorcet, Ivan Breslavetz, Kévin Paillot, Nicolas Vanthuyne, Olivier Cadot, Geert L. J. A. Rikken, Boris Le Guennic, Jeanne Crassous, Fabrice Pointillart, Cyrille Train, and Matteo Atzori, "Magneto-Chiral Dichroism in a One-Dimensional Assembly of Helical Dysprosium(III) Single-Molecule Magnets," *Inorg. Chem.* **62**, 17583–17587 (2023).
- [50] G. L. J. A. Rikken and N. Avarvari, "Comparing Electrical Magnetochiral Anisotropy and Chirality-Induced Spin Selectivity," *J. Phys. Chem. Lett.* **14**, 9727–9731 (2023).
- [51] Aleksander Rodek, Thilo Hahn, James Howarth, Takashi Taniguchi, Kenji Watanabe, Marek Potemski, Piotr Kossacki, Daniel Wigger, and Jacek Kasprzak, "Controlled coherent-coupling and dynamics of exciton complexes in a MoSe₂ monolayer," *2D Materials* **10**, 025027 (2023).
- [52] A. Rosuel, C. Marcenat, G. Knebel, T. Klein, A. Pourret, N. Marquardt, Q. Niu, S. Rousseau, A. Demuer, G. Seyfarth, G. Lapertot, D. Aoki, D. Braithwaite, J. Flouquet, and J. P. Brison, "Field-Induced Tuning of the Pairing State in a Superconductor," *Physical Review X* **13**, 011022 (2023).
- [53] D. Santos-Cottin, I. Mohelský, J. Wyzula, F. Le Mardelé, I. Kapon, S. Nasrallah, N. Barišić, I. Živković, J. R. Soh, F. Guo, K. Rigaux, M. Puppin, J. H. Dil, B. Gudac, Z. Rukelj, M. Novak, A. B. Kuzmenko, C. C. Homes, Tomasz Dietl, M. Orlita, and Ana Akrap, "EuCd₂As₂: A Magnetic Semiconductor," *Physical Review Letters* **131**, 186704 (2023).
- [54] Mykhailo Shestopalov, Václav Dědič, Martin Rejhon, Bohdan Morzhuk, Jan Kunc, Vaisakh C. Paingad, Petr Kužel, Ivan Mohelský, Florian Le Mardelé, and Milan Orlita, "Plasmon-plasmon interaction and the role of buffer in epitaxial graphene microflakes," *Physical Review B* **108**, 045308 (2023).
- [55] Nikodem Sokolowski, Swaroop Palai, Mateusz Dyksik, Katarzyna Posmyk, Michał Baranowski, Alessandro Surrente, Duncan Maude, Felix Carrascoso, Onur Cakiroglu, Estrella Sanchez, Alina Schubert, Carmen Munuera, Takashi Taniguchi, Kenji Watanabe, Joakim Hagel, Samuel Brem, Andres Castellanos-Gomez, Ermin Malic, and Paulina Plochocka, "Twist-angle dependent dehybridization of momentum-indirect excitons in MoSe₂/MoS₂ heterostructures," *2D Materials* **10**, 034003 (2023).
- [56] Wiktoria Solarzka, Krzysztof Karpierz, Maciej Zaremba, Florian Le Mardelé, Ivan Mohelsky, Adam Siemaszko, Mikolaj Grymuza, Lucja Kipczak, Natalia Zawadzka, Maciej R. Molas, Eryk Imos, Zbigniew Adamus, Tomasz Slupinski, Tomasz Wojtowicz, Milan Orlita, Adam Babinski, and Jerzy Lusakowski, "Magnetophotoluminescence of Modulation-Doped CdTe Multiple Quantum Wells," *ACS Omega* **8**, 40801–40807 (2023).
- [57] Alexandru-Constantin Stoica, Madalin Damoc, Sergiu Shova, Ghenadie Novitchi, Mihaela Dascalu, and Maria Cazacu, "A Manganese(II) 3D Metal-Organic Framework with Siloxane-Spaced Dicarboxylic Ligand: Synthesis, Structure, and Properties," *Inorganics* **11**, 21 (2023).
- [58] Simon Tardieu, David Mesguich, Antoine Lonjon, Florence Lecouturier-Dupouy, Nelson Ferreira, Geoffroy Chevallier, Arnaud Proietti, Claude Estournès, and Christophe Laurent, "Influence of bimodal copper grain size distribution on electrical resistivity and tensile strength of silver - copper composite wires," *Materials Today Communications*, 107403 (2023).
- [59] Kristupas Kazimieras Tikuišis, Adam Dubroka, Klára Uhlřřová, Florian Speck, Thomas Seyller, Maria Losurdo, Milan Orlita, and Martin Veis, "Dielectric function of epitaxial quasi-freestanding monolayer graphene on Si-face 6H-SiC in a broad spectral range," *Phys. Rev. Mater.* **7**, 044201 (2023).
- [60] Y. Tokunaga, H. Sakai, S. Kambe, P. Opletal, Y. Tokiwa, Y. Haga, S. Kitagawa, K. Ishida, D. Aoki, G. Knebel, G. Lapertot, S. Krämer, and M. Horvatić, "Longitudinal Spin Fluctuations Driving Field-Reinforced Superconductivity in UTe₂," *Physical Review Letters* **131**, 226503 (2023).
- [61] Robert F. Tournier and Michael I. Ojovan, "NiTi₂, a New Liquid Glass," *Materials* **16**, 6681 (2023).
- [62] Chen Wei, Jinshan Li, Bowen Dong, Chenglin Huang, Lin Wang, Yujie Yan, Yixuan He, Eric Beaugnon, and Jun Wang, "Tailoring the microstructure and properties of a Cu-Co immiscible alloy by high magnetic field assisted heat treatment," *Materials Chemistry and Physics* **302**, 127706 (2023).
- [63] Chen Wei, Jun Wang, Bowen Dong, Yujie Yan, Lin Wang, Yixuan He, Eric Beaugnon, and Jinshan Li, "Properties and microstructural evolution of a ternary Cu-Co-Fe immiscible alloy solidified under high magnetic fields," *Journal of Materials Research and Technology* **24**, 3564–3574 (2023).

-
- [64] Chen Wei, Jun Wang, Yixuan He, Yujie Yan, Eric Beaugnon, and Jinshan Li, “Magnetic field induced instability pattern evolution in an immiscible alloy,” *Applied Physics Letters* **123**, 254101 (2023).
- [65] Ruth Weller, Mihail Atanasov, Serhiy Demeshko, Ting-Yi Chen, Ivan Mohelsky, Eckhard Bill, Milan Orlita, Franc Meyer, Frank Neese, and C. Gunnar Werncke, “On the Single-Molecule Magnetic Behavior of Linear Iron(I) Arylsilylamides,” *Inorg. Chem.* **62**, 3153–3161 (2023).
- [66] Zhuo Yang, Benoit Fauqué, Toshihiro Nomura, Takashi Shitaokoshi, Sunghoon Kim, Debanjan Chowdhury, Zuzana Pribulová, Jozef Kacmarcik, Alexandre Pourret, Georg Knebel, Dai Aoki, Thierry Klein, Duncan K. Maude, Christophe Marcenat, and Yoshimitsu Kohama, “Unveiling the double-peak structure of quantum oscillations in the specific heat,” *Nature Communications* **14**, 7006 (2023).
- [67] W. Yao, A. Fazzini, S.N. Chen, K. Burdonov, J. Béard, M. Borghesi, A. Ciardi, M. Miceli, S. Orlando, X. Ribeyre, and et al., “Investigating particle acceleration dynamics in interpenetrating magnetized collisionless super-critical shocks,” *Journal of Plasma Physics* **89**, 915890101 (2023).
- [68] W. Yao, A. Higginson, J.-R. Marquès, P. Antici, J. Béard, K. Burdonov, M. Borghesi, A. Castan, A. Ciardi, B. Coleman, S. N. Chen, E. d’Humières, T. Gangolf, L. Gremillet, B. Khiar, L. Lancia, P. Loiseau, X. Ribeyre, A. Soloviev, M. Starodubtsev, Q. Wang, and J. Fuchs, “Dynamics of Nanosecond Laser Pulse Propagation and of Associated Instabilities in a Magnetized Underdense Plasma,” *Physical Review Letters* **130**, 265101 (2023).