

## apl. Prof. Dr. Martin Jourdan

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### List of Publications (29.05.2019)

91. *Surface resonance of thin films of the Heusler half-metal Co<sub>2</sub>MnSi probed by soft x-ray angular resolved photoemission spectroscopy*  
Christian Lidig, Jan Minár, Jürgen Braun, Hubert Ebert, Andrei Gloskovskii, Jonas A. Krieger, Vladimir Strocov, Mathias Kläui, and **Martin Jourdan**  
Phys. Rev. B 99, 174432 (2019).
90. *Imaging of current induced Néel vector switching in antiferromagnetic Mn<sub>2</sub>Au*  
S. Yu. Bodnar, M. Filianina, S. P. Bommanaboyena, T. Forrest, F. Maccherozzi, A. A. Sapozhnik, Y. Skourski, M. Kläui, and **M. Jourdan**  
Phys. Rev. B 99, 140409(R) (2019).
89. *Unidirectional Spin Hall Magnetoresistance as a Tool for Probing the Interfacial Spin Polarization of Co<sub>2</sub>MnSi*  
C. Lidig, J. Cramer, L. Weißhoff, T.R. Thomas, T. Kessler, M. Kläui, and **M. Jourdan**  
Phys. Rev. Appl. 11, 044039 (2019)
88. *Néel Spin-Orbit Torque Driven Antiferromagnetic Resonance in Mn<sub>2</sub>Au Probed by Time-Domain THz Spectroscopy*  
N. Bhattacharjee, A. A. Sapozhnik, S. Yu. Bodnar, V. Yu. Grigorev, S. Y. Agustsson, J. Cao, D. Dominko, M. Obergfell, O. Gomonay, J. Sinova, M. Kläui, H.-J. Elmers, **M. Jourdan**, and J. Demsar  
Phys. Rev. Lett. 120, 237201 (2018).
87. *Strain detection in non-magnetic steel by Kerr-microscopy of magnetic tracer layers*  
**M. Jourdan**, M.M.B. Krämer, M. Kläui, H.-J. Elmers, S. Deldar, M. Smaga, T. Beck  
J. Magn. Magn. Mat. 465, 143 (2018).
86. *Experimental determination of exchange constants in antiferromagnetic Mn<sub>2</sub>Au*  
A. A. Sapozhnik, C. Luo, H. Ryll, F. Radu, **M. Jourdan**, H. Zabel, and Hans-Joachim Elmers  
Phys. Rev. B 97, 184416 (2018).
85. *Direct imaging of antiferromagnetic domains in Mn<sub>2</sub>Au manipulated by high magnetic fields*  
A.A. Sapozhnik, M. Filianina, S. Yu. Bodnar, A. Lamirand, M. Mawass, Y. Skourski, H.-J. Elmers, H. Zabel, M. Kläui, **M. Jourdan**  
Phys. Rev. B, 97, 134429 (2018).
84. *Signature of a highly spin polarized resonance state at Co<sub>2</sub>MnSi(0 0 1)/Ag(0 0 1) interfaces*  
Christian Lidig, Jan Minár, Jürgen Braun, Hubert Ebert, Andrei Gloskovskii, Alexander Kronenberg, Mathias Kläui and **Martin Jourdan**  
J. Phys. D: Appl. Phys. 51, 135307 (2018).
83. *Complex Terahertz and Direct Current Inverse Spin Hall Effect in YIG/Cu<sub>1-x</sub>I<sub>x</sub> Bilayers Across a Wide Concentration Range*  
Joel Cramer, Tom Seifert, Alexander Kronenberg, Felix Fuhrmann, Gerhard Jakob,

- Martin Jourdan**, Tobias Kampfrath, and Mathias Kläui  
*Nano Letters* 18, 1064 (2018).
82. *Writing and reading antiferromagnetic Mn<sub>2</sub>Au by Néel spin-orbit torques and large anisotropic magnetoresistance*  
 S.Yu. Bodnar, L. Šmejkal, I. Turek, T. Jungwirth, O. Gomonay, J. Sinova, A.A. Sapozhnik, H.-J. Elmers, M. Kläui , and **M. Jourdan**  
*Nature Communications* 9, 348 (2018).
81. *Manipulation of antiferromagnetic domain distribution in Mn<sub>2</sub>Au by ultrahigh magnetic fields and by strain*  
 R. Abrudan, Yu. Skourski, **M. Jourdan**, H. Zabel, M. Kläui, H.-J. Elmers  
*Physica Status Solidi – rrl* 11, 1600438 (2017).
80. *Dirac cone and pseudogapped density of states in the topological half-Heusler compound YPtBi*  
 A. Kronenberg, J. Braun, J. Minár, H.-J. Elmers, D. Kutnyakhov, A. V. Zaporozhchenko, R. Wallauer, S. Chernov, K. Medjanik, G. Schönhense, M. Kläui, S. Chadov, H. Ebert, and **M. Jourdan**  
*Phys. Rev. B* 94, 161108 (2016).
79. *Efficient metallic spintronic emitters of ultrabroadband terahertz radiation*  
 T. Seifert, S. Jaiswal, U. Martens, J. Hannegan, L. Braun, P. Maldonado, F. Freimuth, A. Kronenberg, J. Henrizi, I. Radu, E. Beaurepaire, Y. Mokrousov, P. M. Oppeneer, **M. Jourdan**, G. Jakob, D. Turchinovich, L. M. Hayden, M. Wolf, M. Münzenberg, M. Kläui, and T. Kampfrath  
*Nature Photonics*, 10, 483 (2016).
78. *Evidence for Eight-Node Mixed-Symmetry Superconductivity in a Correlated Organic Metal*  
 Daniel Guterding, Sandra Diehl, Michaela Altmeyer, Torsten Methfessel, Ulrich Tutsch, Harald Schubert, Michael Lang, Jens Müller, Michael Huth, Harald O. Jeschke, Roser Valentí, **Martin Jourdan**, and Hans-Joachim Elmers  
*Phys. Rev. Lett.*, 116, 237001 (2016).
77. *Superconducting Energy Gap Features of FeSe Investigated by Tunneling Spectroscopy on Planar Junctions*  
 Eike Venzmer, Alexander Kronenberg, and **Martin Jourdan**  
*J. Supercon. Nov. Magn.*, 4, 897 (2016).
76. *Spin Currents injected electrically and thermally from highly spin polarized Co<sub>2</sub>MnSi*  
 Alexander Pfeiffer, Shaojie Hu, Robert M. Reeve, Alexander Kronenberg, **Martin Jourdan**, Takashi Kimura, and Mathias Kläui  
*Appl. Phys. Lett.*, 107, 082401 (2015).
75. *Epitaxial Mn<sub>2</sub>Au thin films for antiferromagnetic spintronics*  
**M. Jourdan**, H. Bräuning, A. Sapozhnik, H.-J. Elmers, H. Zabel, and M. Kläui  
*J. Phys. D: Appl. Phys.*, 48, 385001 (2015).
74. *Magnetic configurations in nanostructured Co<sub>2</sub>MnGa thin film elements*  
 S Finizio , A Kronenberg , M Vafae , M Foerster , K Litzius , A de Lucia , T O Menteş , L Aballe , B Krüger , **M Jourdan** and M Kläui  
*New J. Phys.* **17**, 083030 (2015).
73. *Disorder-induced gap in the normal density of states of the organic superconductor  $\kappa$ - (BEDT-TTF)<sub>2</sub>Cu[N(CN)<sub>2</sub>]Br*

- Sandra Diehl, Torsten Methfessel, Ulrich Tutsch, Jens Müller, Michael Lang, Michael Huth, **Martin Jourdan** and Hans-Joachim Elmers  
*J. Phys.: Condens. Matter* **27**, 265601 (2015).
72. *Monitoring surface resonances on Co<sub>2</sub>MnSi(100) by spin-resolved photoelectron spectroscopy.*  
J. Braun, **M. Jourdan**, J. Minár, A. Kronenberg, S. Chadov, B. Balke, A. Gloskovskii, M. Kolbe, H.J. Elmers, G. Schönhense, H. Ebert, C. Felser and M. Kläui; *Phys. Rev. B*, **91**, 195128 (2015).
71. *Revival of Heusler compounds for spintronics*  
**M. Jourdan**, *Materials Today* **17**, 362 (2014).
70. *Direct observation of half-metallicity in the Heusler compound Co<sub>2</sub>MnSi.*  
**M. Jourdan**, J. Minár, J. Braun, A. Kronenberg, S. Chadov, B. Balke, A. Gloskovskii, M. Kolbe, H.J. Elmers, G. Schönhense, H. Ebert, C. Felser and M. Kläui; *Nature Communications* **5**, 3974 (2014).
69. *Thin Film Growth of Fe-based Superconductors: From Fundamental Properties to Functional Devices. A comparative review.*  
S. Haindl, M. Kidszun, S. Oswald, C. Hess, B. Büchner, S. Kölling, L. Wilde, T. Thersleff, **M. Jourdan**, H. Hiramatsu, H. Hosono,  
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68. *Magnetic anisotropy engineering in thin film Ni nanostructures by magneto-elastic coupling.*  
S. Finizio, M. Foerster, M. Buzzi, B. Krüger, **M. Jourdan**, C.A.F. Vaz, J. Hockel, T. Miyawaki, A. Tkach, S. Valencia, F. Kronast, G.P. Carman, F. Nolting, and M. Kläui, *Phys. Rev. Appl.* **1**, 021001 (2014).
67. *Microwave spectroscopy on heavy-fermion systems: Probing the dynamics of charges and magnetic moments*  
Marc Scheffler, Katrin Schlegel, Conrad Clauss, Daniel Hafner, Christian Fella, Martin Dressel, **Martin Jourdan**, Jörg Sichelschmidt, Cornelius Krellner, Christoph Geibel, Frank Steglich  
*Phys. Stat. Sol.* **250**, 439 (2013).
66. *Test of band structure calculations for Heusler compounds by spin-resolved photoemission spectroscopy*  
M. Kolbe, S. Chadov, E. Arbelo Jorge, G. Schönhense, C. Felser, H.-J. Elmers, M. Kläui, and **M. Jourdan**  
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65. *Electric transport through nanometric CoFe<sub>2</sub>O<sub>4</sub> thin films investigated by conducting atomic force microscopy*  
M. Foerster, D. F. Gutierrez, J. M. Rebled, E. Arbelo, F. Rigato, **M. Jourdan**, F. Peiro, J. Fontcuberta,  
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P. Klaer, F. Hoffmann, G. Woltersdorf, E. Arbelo Jorge, **M. Jourdan**, C. H. Back, and H. J. Elmers,  
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63. *Terahertz conductivity of the heavy-fermion compound UNi<sub>2</sub>Al<sub>3</sub>*

- Julia P. Ostertag, Marc Scheffler, Martin Dressel, **Martin Jourdan**  
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62. *Significant spin polarization of Co<sub>2</sub>MnGa Heusler thin films on MgO(100) measured by ultraviolet photoemission spectroscopy*  
Michaela Hahn, Gerd Schönhense, Elena Arbelo Jorge, and **Martin Jourdan**  
Appl. Phys. Lett. **98**, 232503 (2011).
61. *Spectroscopy of the electronic states of the Heusler compounds Co<sub>2</sub>FeAl and Co<sub>2</sub>Cr<sub>0.6</sub>Fe<sub>0.4</sub>Al and the influence of oxidation*  
**Martin Jourdan**, Fabian Große-Schulte, Michaela Hahn and Gerd Schönhense  
J. Phys. D: Appl. Phys. **44**, 155001 (2011).
60. *Temperature dependence of x-ray absorption spectra in the ferromagnetic Heusler alloys Mn<sub>2</sub>VAl and Co<sub>2</sub>FeAl*  
P. Klaer, E. Arbelo Jorge, **M. Jourdan**, W. H. Wang, H. Sukegawa, K. Inomata, and H. J. Elmers  
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59. *Preparation, characterization, and upper critical field of epitaxial FeSe thin films*  
Sebastian ten Haaf and **Martin Jourdan**  
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58. *Microwave conductivity of heavy fermions in UPd<sub>2</sub>Al<sub>3</sub>*  
Marc Scheffler Marc, Martin Dressel and **Martin Jourdan**  
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57. *Observing the anisotropic optical response of the heavy-fermion compound UNi<sub>2</sub>Al<sub>3</sub>*  
Julia P. Ostertag, Marc Scheffler, Martin Dressel, **Martin Jourdan**  
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56. *Interface and bulk magnetism of Co<sub>2</sub>Cr<sub>0.6</sub>Fe<sub>0.4</sub>Al and Co<sub>2</sub>CrAl thin films*  
**M. Jourdan**, E.Arbelo Jorge, C.Herbort, M.Kallmayer, P.Klaer, and H. J.Elmers  
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55. *Spin-resolved unoccupied density of states in epitaxial Heusler-alloy films*  
M. Kallmayer, P. Klaer, H. Schneider, E. Arbelo Jorge, C. Herbort, G. Jakob, **M. Jourdan**, and H. J. Elmers.  
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54. *Magnetic and structural properties of Co<sub>2</sub>FeAl<sub>1-x</sub>Si<sub>x</sub> thin films*  
E.Arbelo Jorge, **M. Jourdan**, M.Kallmayer, P.Klaer, and H. J.Elmers  
Journal of Physics: Conference Series (2009), accepted.
53. *Magnetoresistance of Fe thin films on faceted Al<sub>2</sub>O<sub>3</sub> substrates*  
S. Mooser and **M. Jourdan**  
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52. *Morphology induced magnetoresistance enhancement of tunneling junctions with the Heusler electrode Co<sub>2</sub>Cr<sub>0.6</sub>Fe<sub>0.4</sub>Al*  
C. Herbort, E. Arbelo Jorge, and **M. Jourdan**  
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51. *Morphology and magnetoresistance of Co<sub>2</sub>Cr<sub>0.6</sub>Fe<sub>0.4</sub>Al-based tunnelling junctions*

- C. Herbort, E. Arbelo, and **M. Jourdan**  
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50. *Effects of post-growth annealing on structural and compositional properties of the  $Co_2Cr_{0.6}Fe_{0.4}Al$  surface and its relevance for the surface electron spin polarization*  
J.-P. Wüstenberg, J. Fischer, C. Herbort, **M. Jourdan**, M. Aeschlimann and M. Cinchetti  
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49. *Brillouin light scattering study of  $Co_2Cr_{0.6}Fe_{0.4}Al$  and  $Co_2FeAl$  Heusler compounds*  
O. Gaier, J. Hamrle, S. Trudel, A. Conca Parra, B. Hillebrands, E. Arbelo, C. Herbort and **M. Jourdan**  
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48. *Low-temperature microwave response of heavy-fermion compounds*  
M. Scheffler, M. Dressel, and **M. Jourdan**  
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47. *Magnetic and Electronic Properties of Heusler Alloy Films Investigated by X-Ray Magnetic Circular Dichroism*  
H.J. Elmers, A. Conca, T. Eichhorn, A. Gloskovskii, K. Hild, G. Jakob, **M. Jourdan** , M. Kallmayer  
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46. *Ni-based superconductor: Heusler compound  $ZrNi_2Ga$*   
J. Winterlik, G.H. Fecher, C. Felser, **M. Jourdan**, K. Grube, F. Hardy, H. von Lohneysen, K.L. Holman, R.J. Cava  
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45. *Conversion electron Mossbauer spectroscopy of epitaxial  $Co_2Cr_{0.6}Fe_{0.4}Al$  thin films*  
V. Ksenofontov, C. Herbort, **M. Jourdan**, C. Felser  
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44. *Anisotropic transport properties of  $UNi_2Al_3$  thin films*  
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43. *Tunneling spectroscopy of the Heusler compound  $Co_2Cr_{0.6}Fe_{0.4}Al$*   
**M. Jourdan**, A. Conca, C. Herbort, M. Kallmayer, H. J. Elmers, and H. Adrian  
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42. *Epitaxial  $Co_2Cr_{0.6}Fe_{0.4}Al$  thin films and magnetic tunnel junctions.*  
A. Conca, **M. Jourdan**, and H. Adrian,  
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41. *Towards a full Heusler alloy showing room temperature half-metallicity at the surface*  
M. Cinchetti, J.-P. Wüstenberg, M. Sánchez Albaneda, F. Steeb, A. Conca, **M. Jourdan**, and M. Aeschlimann,  
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40. *Correlation of local disorder and electronic properties in the Heusler alloy  $Co_2Cr_{0.6}Fe_{0.4}Al$*   
M. Kallmayer, A. Conca, **M. Jourdan**, H. Schneider, G. Jakob, H. J. Elmers, and A. Gloskovskii,

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A. Conca, **M. Jourdan**, C. Herbort, and H. Adrian, cond-mat/0605698,  
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37. *Dynamics of heavy fermions: Drude response in  $UPd_2Al_3$  and  $UNi_2Al_3$*   
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36. *Magnetic anisotropies and magnetization reversal on the  $Co_2Cr_{0.6}Fe_{0.4}Al$  Heusler compound*  
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35. *Tunneling Spectroscopy on Epitaxial  $UNi_2Al_3$  Thin Films*  
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33. *Magnetic order in thin films of the heavy fermion superconductor  $UNi_2Al_3$*   
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32. *Magnetic tunnel junctions with the Heusler compound  $Co_2Cr_{0.6}Fe_{0.4}Al$*   
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30. *Magnetic tunnelling junctions with the Heusler compound  $Co_2Cr_{0.6}Fe_{0.4}Al$*   
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29. *Direct observation of Drude behaviour in the heavy fermion  $UPd_2Al_3$  by broadband microwave spectroscopy*,  
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16. *Heavy-Fermion Superconductivity Induced by Antiferromagnetic Spin Fluctuations,*  
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14. *Tunneling into epitaxial  $UPd_2Al_3$  thin films,*  
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