

List of Publications 2012

- [1] D. Aoki, C. Paulsen, H. Kotegawa, F. Hardy, C. Meingast, P. Haen, M. Boukahil, W. Knafo, E. Ressouche, S. Raymond, and J. Flouquet, “Decoupling between Field-Instabilities of Antiferromagnetism and Pseudo-Metamagnetism in Rh-Doped CeRu₂Si₂ Kondo Lattice,” [Journal of the Physical Society of Japan](#) **81**, 034711 (2012).
- [2] D. Aoki, M. Taupin, C. Paulsen, F. Hardy, V. Taufour, H. Kotegawa, E. Hassinger, L. Malone, T. D. Matsuda, A. Miyake, I. Sheikin, W. Knafo, G. Knebel, L. Howald, J.-P. Brison, and J. Flouquet, “Field-Induced Phenomena in Ferromagnetic Superconductors UCoGe and URhGe,” [Journal of the Physical Society of Japan](#) **81**, SB002 (2012).
- [3] A. Audouard, J.-Y. Fortin, D. Vignolles, R. B. Lyubovskii, L. Drigo, F. Duc, G. V. Shilov, G. Ballon, E. I. Zhilyaeva, R. N. Lyubovskaya, and E. Canadell, “Quantum oscillations in the linear chain of coupled orbits: The organic metal with two cation layers θ -(ET)₄CoBr₄(C₆H₄Cl₂),” [Europhysics Letters](#) **97**, 57003 (2012).
- [4] J. Béard, J. Billette, M. Suleiman, P. Frings, W. Knafo, G.W. Scheerer, F. Duc, D. Vignolles, M. Nardone, A. Zitouni, P. Delescluse, J.-M. Lagarrigue, F. Giquel, B. Griffe, N. Bruyant, J.-P. Nicolin, G.L.J.A. Rikken, R.B. Lyubovskii, G.V. Shilov, E.I. Zhilyaeva, R.N. Lyubovskaya, and A. Audouard, “High-frequency magnetic oscillations of the organic metal θ -(ET)₄ZnBr₄(C₆H₄Cl₂) in pulsed magnetic field of up to 81 T,” [The European Physical Journal Applied Physics](#) **59**, 30201 (2012).
- [5] V. Bellani, F. Rossella, F. Dionigi, M. Goiran, S. George, G. Biasiol, and L. Sorba, “Trion confinement and exciton shrinkage in the 2DEG at high magnetic fields,” [Solid State Communications](#) **152**, 1123–1126 (2012).
- [6] P. Berceau, R. Battesti, M. Fouché, P. Frings, M. Nardone, O. Portugall, G.L.J.A. Rikken, and C. Rizzo, “Quantum vacuum magnetic birefringence,” [Hyperfine Interactions](#) **210**, 7–12 (2012).
- [7] P. Berceau, M. Fouché, R. Battesti, and C. Rizzo, “Magnetic linear birefringence measurements using pulsed fields,” [Physical Review A](#) **85**, 013837 (2012).
- [8] J. Billette, F. Duc, P. Frings, M. Nardone, A. Zitouni, C. Detlefs, T. Roth, W. Crichton, J. E. Lorenzo, and G. L. J. A. Rikken, “A 30 T pulsed magnet with conical bore for synchrotron powder diffraction,” [Review of Scientific Instruments](#) **83**, 043904 (2012).
- [9] J. Biscaras, N. Bergeal, S. Hurand, C. Grossetete, A. Rastogi, R. C. Budhani, D. LeBoeuf, C. Proust, and J. Lesueur, “Two-Dimensional Superconducting Phase in LaTiO₃/SrTiO₃ Heterostructures Induced by High-Mobility Carrier Doping,” [Physical Review Letters](#) **108**, 247004 (2012).
- [10] E. Buet, J.-B. Dubois, P. Olier, L. Thilly, F. Lecouturier, and P.-O. Renault, “Microstructure and texture of copper/niobium composites processed by ECAE,” [International Journal of Material Forming](#) **5**, 121–127 (2012).
- [11] J.B. Dubois, L. Thilly, F. Lecouturier, P. Olier, and P.O. Renault, “Cu/Nb Nanocomposite Wires Processed by Severe Plastic Deformation for Applications in High Pulsed Magnets: Effects of the Multi-Scale Microstructure on the Mechanical Properties,” [IEEE Transactions on Applied Superconductivity](#) **22**, 6900104 (2012), 22nd International Conference on Magnet Technology (MT), ITER Org, Marseille, FRANCE, SEP 12-16, 2011.
- [12] J.-B. Dubois, L. Thilly, P.-O. Renault, and F. Lecouturier, “Cu-Nb Nanocomposite Wires Processed by Severe Plastic Deformation: Effects of the Multi-Scale Microstructure and Internal Stresses on Elastic-Plastic Properties,” [Advanced Engineering Materials](#) **14**, 998–1003 (2012).
- [13] Arnaud Dupays, Carlo Rizzo, and Giovanni Fabrizio Bignami, “Quantum vacuum influence on pulsars spindown evolution,” [Europhysics Letters](#) **98**, 49001 (2012).
- [14] R. Gréget, G.L. Nealon, B. Vilenko, P. Turek, C. Mény, F. Ott, A. Derory, E. Voirin, E. Rivière, A. Rogalev, F. Wilhelm, L. Joly, W. Knafo, G. Ballon, E. Terazzi, J.-P. Kappler, B. Donnio, and J.-L. Gallani, “Magnetic properties of gold nanoparticles: A room-temperature quantum effect,” [ChemPhysChem](#) **13**, 3092–3097 (2012).
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- [18] S. S. Krishtopenko, A. V. Ikonnikov, A. V. Maremyanin, K. E. Spirin, V. I. Gavrilenko, Yu G. Sadofyev, M. Goiran, M. Sadowsky, and Yu B. Vasilyev, “Cyclotron resonance study in InAs/AlSb quantum well heterostructures with two occupied electronic subbands,” [Journal of Applied Physics](#) **111**, 093711 (2012).
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- [21] Yu. I. Latyshev, A. P. Orlov, D. Vignolles, W. Escoffier, and P. Monceau, “Interlayer tunneling spectroscopy of the field induced CDW state in graphite,” [Physica B-condensed Matter](#) **407**, 1885–1888 (2012), International Workshop on Electronic Crystals (ECRYS), CNRS, Inst Etudes Scientifiques, Cargese, FRANCE, AUG 15-27, 2011.
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