

List of Publications 2012

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- [1] Mario Amado, Enrique Diez, Francesco Rossella, Vittorio Bellani, David Lopez-Romero, and Duncan K. Maude, “Magneto-transport of graphene and quantum phase transitions in the quantum Hall regime,” *Journal of Physics-Condensed Matter* **24**, 305302 (2012).
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 - [3] Dai Aoki, Georg Knebel, Ilya Sheikin, Elena Hassinger, Liam Malone, Tatsuma D. Matsuda, and Jacques Flouquet, “High-Field Fermi Surface Properties in the Low-Carrier Heavy-Fermion Compound URu₂Si₂,” *Journal of the Physical Society of Japan* **81**, 074715 (2012).
 - [4] Dai Aoki, Mathieu Taupin, Carley Paulsen, Frédéric Hardy, Valentin Taufour, Hisashi Kotegawa, Elena Hassinger, Liam Malone, Tatsuma D. Matsuda, Atsushi Miyake, Ilya Sheikin, William Knafo, Georg Knebel, Ludovic Howald, Jean-Pascal Brison, and Jacques Flouquet, “Field-Induced Phenomena in Ferromagnetic Superconductors UCoGe and URhGe,” *Journal of the Physical Society of Japan* **81SB**, SB002 (2012).
 - [5] 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).
 - [6] 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 and 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).
 - [7] 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).
 - [8] 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).
 - [9] P. Berceau, M. Fouché, R. Battesti, and C. Rizzo, “Magnetic linear birefringence measurements using pulsed fields,” *Physical Review A* **85**, 013837 (2012).
 - [10] 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).
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