

List of Publications 2013

- [1] B. Albertazzi, J. Béard, A. Ciardi, T. Vinci, J. Albrecht, J. Billette, T. Burris-Mog, S. N. Chen, D. Da Silva, S. Dittrich, T. Herrmannsdorfer, B. Hirardin, F. Kroll, M. Nakatsutsumi, S. Nitsche, C. Riconda, L. Romagnani, H.-P. Schlenvoigt, S. Simond, E. Veuillot, T. E. Cowan, O. Portugall, H. Pepin, and J. Fuchs, “Production of large volume, strongly magnetized laser-produced plasmas by use of pulsed external magnetic fields,” *Review of Scientific Instruments* **84**, 043505 (2013).
- [2] J. A. Alexander-Webber, A. M. R. Baker, T. J. B. M. Janssen, A. Tzalenchuk, S. Lara-Avila, S. Kubatkin, R. Yakimova, B. A. Piot, D. K. Maude, and R. J. Nicholas, “Phase Space for the Breakdown of the Quantum Hall Effect in Epitaxial Graphene,” *Physical Review Letters* **111**, 096601 (2013).
- [3] D. Aoki, W. Knafo, and I. Sheikin, “Heavy fermions in a high magnetic field,” *Comptes Rendus Physique* **14**, 53 – 77 (2013), “Physics in High Magnetic Fields / Physique en champ magnétique intense”.
- [4] S. Arsenijević, H. Hodovanets, R. Gaál, L. Forró, S. L. Bud’ko, and P. C. Canfield, “Signatures of quantum criticality in the thermopower of $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$,” *Physical Review B* **87**, 224508 (2013).
- [5] A. Audouard and J.-Y. Fortin, “Organic conductors in high magnetic fields: Model systems for quantum oscillation physics,” *Comptes Rendus Physique* **14**, 15 – 26 (2013), “Physics in High Magnetic Fields / Physique en champ magnétique intense”.
- [6] Alain Audouard, Jean-Yves Fortin, David Vignolles, Rustem B. Lyubovskii, Elena I. Zhilyaeva, Rimma N. Lyubovskaya, and Enric Canadell, “Onsager phase factor of quantum oscillations in the organic metal θ -(BEDT-TTF) $_4\text{CoBr}_4(\text{C}_6\text{H}_4\text{Cl}_2)$,” *Synthetic Metals* **171**, 51–55 (2013).
- [7] Y. Avila-Torres, H. Lopez-Sandoval, E. Mijangos, L. Quintanar, E. E. Rodriguez, A. Flores-Parra, R. Contreras, R. Vicente, G. L. J. A. Rikken, and N. Barba-Behrens, “Structure and magnetic properties of copper(II) and cobalt(II) coordination compounds derived from optically active tridentate ligands,” *Polyhedron* **51**, 298–306 (2013).
- [8] S. Awaji, H. Oguro, T. Suwa, T. Suzuki, K. Watanabe, G. Nishijima, S. Hanai, K. Marukawa, M. Daibo, T. Saito, H. Sakamoto, I. Inoue, Y. Miyoshi, X. Chaud, F. Debray, and P. Tixador, “Superconducting and Mechanical Properties of Impregnated REBCO Pancake Coils Under Large Hoop Stress,” *IEEE Transactions On Applied Superconductivity* **23**, 4600305 (2013).
- [9] J. Béard, J. Billette, P. Frings, M. Suleiman, and F. Lecouturier, “Special Coils Development at the National High Magnetic Field Laboratory in Toulouse,” *Journal of Low Temperature Physics* **170**, 442–446 (2013).
- [10] J. Béard and F. Debray, “The French High Magnetic Field Facility,” *Journal of Low Temperature Physics* **170**, 541–552 (2013).
- [11] Adam Babinski, Marek Potemski, and Peter C. M. Christianen, “Optical spectroscopy on semiconductor quantum dots in high magnetic fields,” *Comptes Rendus Physique* **14**, 121–130 (2013).
- [12] Amer Baniodeh, Yanhua Lan, Ghenadie Novitchi, Valeriu Mereacre, Andrey Sukhanov, Marilena Ferbinteanu, Violeta Voronkova, Christopher E. Anson, and Annie K. Powell, “Magnetic anisotropy and exchange coupling in a family of isostructural $\text{Fe}(2)(\text{III})\text{Ln}(2)(\text{III})$ complexes,” *Dalton Transactions* **42**, 8926–8938 (2013).
- [13] Neven Barisic, Sven Badoux, Mun K. Chan, Chelsey Dorow, Wojciech Tabis, Baptiste Vignolle, Guichuan Yu, Jerome Beard, Xudong Zhao, Cyril Proust, and Martin Greven, “Universal quantum oscillations in the underdoped cuprate superconductors,” *Nature Physics* **9**, 761–764 (2013).
- [14] A.-L. Barra, M. Goiran, R. Sessoli, and S. A. Zvyagin, “Resonance THz spectroscopy in high magnetic fields,” *Comptes Rendus Physique* **14**, 106 – 114 (2013), “Physics in High Magnetic Fields / Physique en champ magnétique intense”.
- [15] V.M.T.S. Barthem, C.V. Colin, H. Mayaffre, M.-H. Julien, and D. Givord, “Revealing the properties of Mn_2Au for antiferromagnetic spintronics,” *Nat Commun.* **4**, 2892 (2013).
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