

International Seminar and Workshop on  
**Magnonics:**  
**From Fundamentals to Applications**

Workshop: August 2 - 7, 2009 ◦ Seminar: August 8 - 29, 2009

*Scientific coordination:*

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*Organisation:*

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Magnetic materials whose properties are tailored on the nanoscale currently offer the perspective of magnetic field controlled devices in which spin waves (magnons) are used to carry and process information. The workshop and seminar bring together scientists and engineers interested in recent developments in studies ranging from fundamental magnonic properties to their application in the information technologies. Particular emphasis is placed on magnetic materials with modulated properties, which by analogy to photonic and plasmonic crystals have been labelled magnonic crystals. The principle objective of the workshop and seminar is to consolidate the efforts of researchers working in the field of magnonics in order to work out new concepts leading to practical realisation of magnonic devices. Future challenges for magnonics will be identified, which will motivate younger researchers to follow the new pathways and perspectives.

The Program consists of invited talks and posters, without parallel sessions. The seminar and workshop will be held in Dresden, the capital of Free State of Saxony famous for its architecture and museums, the week after ICM 2009 (Karlsruhe).

**List of invited speakers:**

E. L. Albuquerque, Y. Ando, A. Azevedo, C. H. Back, M. Bailleul\*, A. Barman, J. Barnas, P. Boeni\*, M. Bolte, R. E. Camley, Z. Celinski, B. C. Choi, A. Chumak\*, M. Cottam, R. P. Cowburn, V. E. Demidov, J. Fassbender, L. Giovannini, Y. I. Gorobets, M. Grimsditch\*, P. A. J. de Groot, G. Gubbiotti, K. Y. Guslienko, R. Hertel, R. J. Hicken, B. A. Ivanov, A. Khitun, S.-K. Kim, A. V. Kimel, M. P. Kostylev, B. Kramer\*, M. Krawczyk, A. N. Kuchko, K. D. Lee\*, J.-C. S. Levy\*, I. L. Lyubchanskii, R. Marcelli, J. McCord, R. Meckenstock\*, G. A. Melkov, K. Nielsch, S. A. Nikitov, V. Novosad, Y. Otani, N. I. Polushkin, H. Puzskarski, T. Rasing, S. A. Reshetnyak, W. Schwarzacher, A. A. Serga, T. J. Silva\*, A. N. Slavin, R. L. Stamps, D. D. Stancil, S. V. Tarasenko\*, V. Tyberkevych, J. O. Vasseur\*, J. Wu

\* to be confirmed

**Applications** for participation and poster contributions are welcome and should be made by using the application form on the event's web page (please see URL below). Some abstracts will be selected for short talks. The number of attendees is limited. The **registration fee** for the seminar and workshop is **100 €** and should be paid by all participants. Costs for accommodation and meals will be covered by the Max Planck Institute for the Physics of Complex Systems. Limited funding is available to partially cover travel expenses. Please note that childcare is available upon request.

**Deadline for registration is April 30, 2009.**



**For further information please contact:**  
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