POSTDOCTORAL OPENING IN THEORETICAL INSULATOR SPINTRONICS

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A three years-long post-doc position in Theoretical Condensed Matter Physics becomes available March 1, 2014 for Ph.D.s with a top grade in theoretical physics to carry out research on one or more of the following topics in insulator spintronics:

- Magnetization dynamics, in particular dissipation and fluctuations
- Heat and spin transport in magnetic insulator-normal metal structures.
- Spin-transfer torques
- Spin-pumping

The research is funded by the European Union 7. Framework, through the FET STREP network InSpin – insulator spintronics, and coordinated by Arne Brataas starting March 1, 2014. Other partners are Mathias Klaeui (JGU, Germany), Burkard Hillebrands (TU Kaiserslautern, Germany), Bart van Wees (Groningen, the Netherlands) and Gerrit E. W. Bauer (TU Delft, The Netherlands).

Candidates will be expected to

- acquire/have a broad knowledge of theoretical condensed matter physics,
- to study in detail transport and generation/loss of heat and spin,
- and to apply this knowledge to relevant problems addressed by InSpin.

We hope our group provides a friendly and excellent environment for research. In our group, there are currently one post-doc researcher, five PhD students, and three Master students working on various aspects of theoretical spintronics.

Living in the historical capital of Trondheim is very charming. Trondheim has a rich cultural life to offer for its 25 000 students and in total 150 000 inhabitants. Further information on the Norwegian University of Science and Technology and Trondheim can be found at www.ntnu.no and www.trondheim.no.

The applicant should have a PhD in condensed matter physics from a respected higher education institution. Experience in spintronics or quantum transport theory is very useful, but not a
requirement. The salary follows standard Norwegian regulations. The gross salary is around 475 000 NOK ($79 000, € 58 000) per year.

Successful candidates will get a contract for three years. The starting date is March 1, 2014.

Applications will be accepted until the position is filled.

Candidates are invited to submit applications including

- CV,
- list of university courses followed and grades obtained,
- list of publications
- as well as the names, and full contact details of 2 referees to:

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