



NANYANG TECHNOLOGICAL UNIVERSITY



Multiple PhD and PostDoc positions at NTU Singapore

Interplay of Transport and Thermalisation on the Ultrafast Dynamics of Solids

Multiple theory PhD and PostDoc positions will be available from the end of the 2017 in the group of Marco Battiato at the Nanyang Technological University in Singapore.

The research will focus on

- the development of a massively parallel solver for the Boltzmann equation for strongly out-of-equilibrium states in real band structures and extended heterostructures;
- the study of ultrafast spin transport in metals and semiconductors;
- absorption and production of THz radiation in heterostructures;
- thermalisation dynamics and transport in topological insulators and perovskites.

The remuneration and travel budgets are competitive.

PhD positions (starting date: Jan 2018)

The candidate should have a degree in Physics, Mathematics or Engineering, and is required to be highly motivated and with a strong interest in theoretical and/or computational physics and/or mathematics. Fluency in English is required.

Please include a brief cover letter with interests (physics vs mathematics, analytic vs numeric), curriculum vitae, list of grades from university courses, pdf of thesis (if ready), one or two references for recommendation letters.

PostDoc positions (starting date: from Nov 2017)

The candidate should have an excellent scientific track record in physics or mathematics and experience in one (or more) of the following fields: theoretical and computational treatment of ultrafast dynamics in solids; Boltzmann equation; discontinuous Galerkin method.

Please include a brief cover letter with statement of scientific interests and competences, CV with publications list, two references for recommendation letters.

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www <https://sites.google.com/site/battiatomarco>



Nanyang Technological University quick facts:
QS World ranking: 13th World ranking; 7th Materials Science;
3rd Engineering and Technology; 1st Young university

