

Invited Speakers (Tentative)

- ▶ Gerhard Abstreiter (TU München)
"TBA"
- ▶ John Clarke (UC Berkeley)
"Mechanism for 1/f Magnetic Flux Noise in SQUIDs and Flux Qubits"
- ▶ Sergey Frolov (TU Delft)
"Coherent Electrical Manipulation of Single Spins in InAs Nanowires (tentative)"
- ▶ Alexander Golubov (Univ. Twente)
"Odd-Frequency Pairing in Superconducting Nanostructures"
- ▶ Pawel Hawrylak (NRC)
"Optical Properties of 2D and 0D Correlated Electron Systems"
- ▶ Philip Kim (Columbia Univ.)
"Electron Transport in Graphene Nanostructures"
- ▶ Charles Marcus (Harvard Univ.)
"Electron and Nuclear Spin Manipulation in Quantum Dot Systems"
- ▶ Satoshi Moriyama (NIMS)
"Quantum Transport in Graphene Nanostructures"
- ▶ Yasunobu Nakamura (NEC)
"TBA"
- ▶ Oskar Painter (Caltech)
"Optomechanical Crystals"
- ▶ Frederic Pierre (CNRS)
"Exploring and Tuning the Dynamics of Quantum Hall Edge States"
- ▶ Hans Schumacher (PTB)
"Non Adiabatic Single Charge Pumping in GaAs Quantum Dots"
- ▶ Michelle Y. Simmons (Univ. of New South Wales)
"Donor Quantum Dot in Silicon by STM Lithography"
- ▶ Ikuo Suemune (Hokkaido Univ.)
"Cooper-Pair Light Emitting Diodes"
- ▶ Michiharu Tabe (Shizuoka Univ.)
"Si Single Dopant Devices"
- ▶ John Teufel (NIST)
"Microwave cavity optomechanics"
- ▶ Alexander Tzalenchuk (NPL)
"Robust Quantum Resistance Standard Based on Epitaxial Graphene"
- ▶ Denis Vion (CEA Saclay)
"Towards hybrid Quantum circuits: Strong Coupling of a Spin Ensemble to a Superconducting Resonator"
- ▶ Wolfgang Wernsdorfer (Institut Néel, CNRS)
"Molecular Quantum Spintronics with Molecular Nanomagnets"
- ▶ Herre van der Zant (TU Delft)
"CNT-based Nanomechanical Systems"

Committees

Organizing and Program Committee

Hiroshi Yamaguchi (NTT) co-chair
Kouichi Semba (NTT) co-chair
Tatsushi Akazaki (NTT) co-chair
Toshimasa Fujisawa (Tokyo Tech)
Akira Fujiwara (NTT)
Koji Muraki (NTT)
Shintaro Nomura (Univ. of Tsukuba)

Advisory Committee

Tord Claeson (Chalmers Univ. of Tech.)
Yoshiro Hirayama (Tohoku Univ.)
Koji Ishibashi (RIKEN)
Johan E. Mooij (TU Delft)
Junsaku Nitta (Tohoku Univ.)
Seigo Tarucha (Univ. of Tokyo)
Robert M. Westervelt (Harvard Univ.)

Steering Committee

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Shiro Saito (NTT) co-chair
Kenji Yamazaki (NTT) Treasure
Kousuke Kakuyanagi (NTT)
Norio Kumada (NTT)
Katsuhiko Nishiguchi (NTT)
Koji Onomitsu (NTT)
Masumi Yamaguchi (NTT)

Call for papers

International Symposium on Nanoscale Transport and Technology (ISNTT 2011)



January 11 - 14, 2011
NTT Atsugi R&D Center
Atsugi, Kanagawa, Japan



NTT Basic Research Laboratories

Symposium web site
<http://www.brl.ntt.co.jp/event/isntt2011/>

Introduction

The International Symposium on Nanoscale Transport and Technology (ISNTT 2011) brings together leading scientists, researchers, and graduate students to share their latest research and discoveries in the field of physics and technology of nanoscale structures. This symposium is in a series of the related symposia that have been organized by NTT Basic Research Laboratories since 2000. ISNTT 2011 will be held at NTT Atsugi R&D center, Kanagawa, Japan from January 11 to 14, 2011. We encourage frank and open technical discussions on recent breakthroughs and advances in the nanoscale related research. The technical program will be a mix of invited, oral, and poster presentations.

Scope

ISNTT 2011 covers topics related to nanoscale transport and technology. Major topics of ISNTT 2011 include the following.

- Transport in nanostructures (quantum dots, nanowires, carbon nanotubes and so on)
- Dynamics and coherent control of quantum systems
- Quantum computation and information processing
- Mesoscopic superconductivity
- Micro and nanomechanical systems
- Nanodevices and nanoelectronics
- Spintronics and spin related transport
- Quantum Hall systems
- Graphene and related materials
- Nanolithography and self-assembling
- Nanoprobng and nanoscale characterization

Submission of Papers

Abstract Deadline: Oct. 24th, 2010

Prospective authors are requested to submit a one-page camera-ready abstract via the web-site:
<http://www.brl.ntt.co.jp/event/isntt2011/>

Registration

Registration should be completed online on the web site before the date of the symposium. Registration fees are as follows. Details will be announced later.

Full Registration Fee 20,000 JPY

Student Registration Fee 10,000 JPY

Passport and VISA

All the persons entering Japan must have valid passport. In addition, persons who come from certain countries must have visas issued by the Japanese consul in their countries. If your visa application requires an invitation to attend the symposium, please make a contact with the symposium secretariat. For details, please contact your nearest Japan Embassy or Consulate. The web site for the Ministry of Foreign Affairs of Japan is,

http://www.mofa.go.jp/j_info/visit/visa/

Official language

The official language of the symposium is English. No simultaneous translation is provided.

Related meeting

Frontiers in Nanoscale Science and Technology Workshop (2011 FNST)

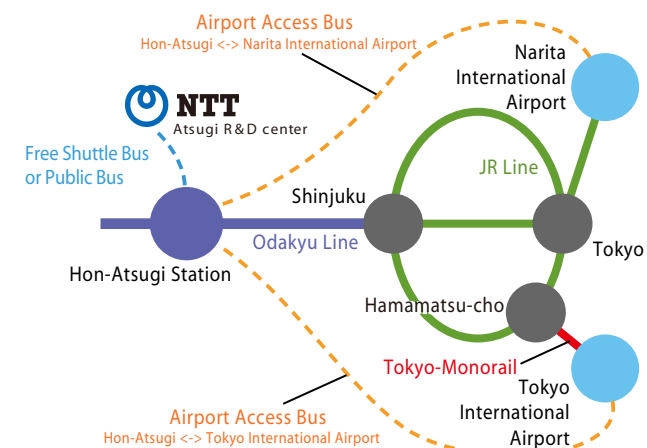
<http://nsec.harvard.edu/fnst/>

23rd International Microprocesses and Nanotechnology Conference (MNC 2010)

<http://imnc.jp/>

Travel information

The conference site, NTT Atsugi R&D center, is located 50 km south-west of Tokyo. The nearest major train station from the conference site is Hon-Atsugi station on the Odakyu Line. Airport access by Limousine bus is available between Narita (or Tokyo) International Airport and Hon-Atsugi station.



There are hotels close to Hon-Atsugi station available to the symposium participants through the registration web site. One of the hotels and the symposium site will be connected with free shuttle buses during the symposium. Public bus service is also available between Hon-Atsugi station and NTT Atsugi R&D center. More detailed information will be given on the symposium web site

Correspondence

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