

Keynote / Invited Speakers

Andrew Cleland — UCSB
"The UC Santa Barbara Quantum Computing Effort"

Seigo Tarucha — The University of Tokyo
"Control of entangled electron pairs with quantum dots"

Qi-Kun Xue — Tsinghua University
"Quantum Anomalous Hall Effect in Magnetic Topological Insulators"

KEYNOTE

Yoichi Ando — Osaka Univ.
"Transport studies of topological insulators"

Jerry M. Chow — IBM
"Building towards a superconducting fault-tolerant quantum computer"

David Cox — NPL
"Fabrication and Verification of Optical Superresolution Lenses"

Javier Garcia de Abajo — ICFO
"Plasmon excitations in nanostructured graphene and graphene-related molecules"

Patrice Bertet — CEA-Saclay
"Towards a spin-ensemble quantum memory for superconducting qubits"

Jonathan Finley — Walter Schottky Institute
"Ultrafast optical control of charge and spin in artificial atoms and molecules"

Andrea Fiore — TU Eindhoven
"Towards quantum photonic integrated circuits"

Stephen Giblin — NPL
"The tunable-barrier pump: an accurate source of single electrons"

Tobias Kippenberg — EPFL
"Cavity optomechanics: quantum coherent coupling of light and mechanical motion"

Konrad Lehnert — University of Colorado and NIST
"Amplification, memory, and entanglement in electromechanical circuits"

Andrea Mollero — UNSW
"Single-atom spin qubits in silicon"

Sven Rogge — UNSW
"Hybrid optical and electrical addressing of a single atom"

Javier Sanchez-Yamagishi and Pablo Jarillo-Herrero — MIT
"Quantum Spin Hall effects in Graphene/hBN heterostructures"

Eric Spanton — Stanford University (Moler Group)
"Imaging current in quantum spin Hall insulators"

Jaw-Shen Tsai — NEC/RIKEN
"Coherent quantum phase slip"

Oliver G. Schmidt — IFW Dresden
"Inorganic nanomembranes: From stretchable magnetoelectronics to catalytic transport"

Zhong Lin Wang — Georgia Tech
"Nanogenerators as new energy technology and piezotronics for functional systems"

Committees

Organizing and Program Committee

A. Fujiwara (NTT) co-chair
H. Yamaguchi (NTT) co-chair
K. Muraki (NTT) co-chair
H. Gotoh (NTT)
H. Hibino (NTT)
S. Saito (NTT)

Advisory Committee

T. Claeson (Chalmers Univ. of Tech.)
T. Fujisawa (Tokyo Tech.)
Y. Hirayama (Tohoku Univ.)
J. E. Mooij (TU Delft)
J. Nitta (Tohoku Univ.)
S. Tarucha (Univ. of Tokyo)
Y. Tokura (Univ. of Tsukuba)
K. Semba (NII)
T. Akazaki (Kochi National College of Technology)

Steering Committee

H. Tamura (NTT) chair
K. Nishiguchi (NTT) vice-chair
T. Hayashi (NTT) Treasure
J. Noborisaka (NTT)
H. Okamoto (NTT)
K. Suzuki (NTT)
S. Saito (NTT)

Call for papers

International Symposium
on
Nanoscale Transport and Technology
(ISNTT 2013)



November 26 - 29, 2013

NTT Atsugi R&D Center

Atsugi, Kanagawa, Japan

Symposium web site

<http://www.brl.ntt.co.jp/event/isntt2013/>

Important Date:

Abstract Submissin Deadline: Sep. 6th, 2013.

Notification of Acceptance: Oct. 11st, 2013.

Registration Deadline: Oct. 25th, 2013



NTT Basic Research Laboratories

Introduction

The International Symposium on Nanoscale Transport and Technology (ISNTT2013) is dedicated to promoting mutual exchange between world-leading scientists and researchers in the field of physics and technology of nanoscale structures. The series of related symposia have been organized by NTT Basic Research Laboratories since 2000 (ISNTT2011, ISNTT2009, NNCI2007, MS+S2006). ISNTT2013 will take place at NTT Atsugi R&D center, Kanagawa, Japan from November 26 to 29, 2013. The symposium will contain a rich program of invited, oral, and poster presentations, thus providing an opportunity to share the latest topics in this field. Furthermore, 6th NTT BRL school for graduate students will be held jointly on November 24-26, 2013.

Scope

ISNTT2013 covers topics related to nanoscale transport and technology. Major topics of ISNTT2013 include the following.

- Transport and optical properties of 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 Submission Deadline: September 6th, 2013.

The deadline extended to September 18.

Prospective authors are requested to submit a one-page camera-ready abstract via the web-site:
<http://www.brl.ntt.co.jp/event/isntt2013/>

Registration

Registration should be completed online on the web site before October 25th, 2013.

Registration Fee: 20,000 JPY

Student Registration Fee: 10,000 JPY

Passport & 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.

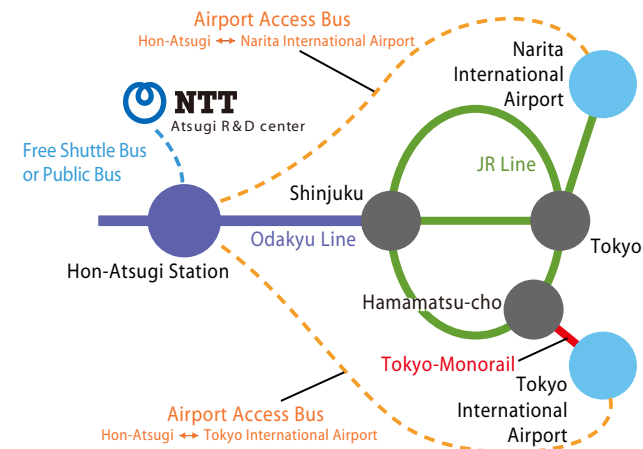
Related event

6th NTT-BRL School (November 24-26, 2013.)

<http://www.brl.ntt.co.jp/event/brlschool2013/>

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

ISNTT 2013 Secretariat
NTT Basic Research Laboratories
3-1 Morinosato-Wakamiya, Atsugi,
Kanagawa 243-0198, Japan
E-mail: isntt2013@lab.ntt.co.jp