

NNCI2007

International Conference on
Nanoelectronics, Nanostructures and Carrier Interactions



February 20 - 23, 2007

NTT Atsugi R&D Center (Atsugi, Kanagawa, Japan)

Conference Topics

The conference covers all aspects of fabrication and characterization of semiconductor nanosystems, nanotubes, and other materials. Carrier interactions and coherent controls in semiconductor and other nanosystems are also intensively discussed in the conference.

Papers are solicited on a wide variety of topics including, but not limited to, the following:

- Carrier interaction phenomena
- Coherent control and quantum computing
- Mesoscopic semiconductor/superconductor systems
- Micro - and nanomechanical systems
- Nanodevices and nanoelectronics
- Nanolithography and self-assembling
- Nanoprobng
- Nanotubes and nanowires
- Physics and growth of related heterostructures
- Quantum information processing
- Quantum low dimensional systems
- Spin and nuclear spin related phenomena

Important Dates

Dec. 25, 2006:	Abstract submission
Jan. 15, 2007:	Notification of acceptance
Jan. 29, 2007:	Registration
Feb. 20-23, 2007:	NNCI2007 Conference

Abstract Submission

Prospective authors must submit one-page camera-ready abstract via web-site

<http://www.brl.ntt.co.jp/event/nnci2007/index.html>

The deadline of abstract submission is 25th December. The one-page abstract must be prepared in English in A4-format and submitted as a PDF file. The abstract must include the title of the paper, author(s), affiliation(s), address, telephone/fax numbers, e-mail address, and article texts. The corresponding author should be underlined. It is also possible to add figures and tables in the available A4 space.

Authors of accepted papers will be notified by e-mail before January 15th, 2007.

Conference Committee

Co-chairs:

Toshimasa Fujisawa (NTT, Tokyo Tech, SORST-JST)
Yoshiro Hirayama (Tohoku Univ., SORST-JST)
Hiroshi Yamaguchi (NTT, Tohoku Univ.)

Members:

Mikio Eto (Keio University)
Akira Fujiwara (NTT)
Toshiaki Hayashi (NTT)
Hiroshi Inokawa (Shizuoka Univ.)
Nobuyuki Imoto (Osaka Univ.,CREST-JST)
Kiyoshi Kanisawa (NTT)
Katsuhiko Nishiguchi (NTT)
Yukinori Ono (NTT)
Sahin Kaya Ozdemir (Osaka Univ., SORST-JST)
Satoshi Sasaki (NTT, Tohoku Univ.)
Susumu Sasaki (Nigata Univ., SORST-JST)
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Kouta Tateno (NTT)
Takashi Tokizaki (AIST, SORST-JST)
Michihisa Yamamoto (Tokyo Univ., SORST-JST)
Kenji Yamazaki (NTT)

Conference Website

Updated information will be posted at

<http://www.brl.ntt.co.jp/event/nnci2007/>

NNCI2007 conference secretary

nnci2007@will.brl.ntt.co.jp

Invited Speakers and Tentative Titles

Plenary speakers:

Lars Samuelson (Lund University)

(to be announced)

Eli Yablonovitch(UCLA)

Electrical detection of spin resonance

Robert M. Westervelt (Harverd Univ.)

(to be announced)

Invited speakers:

Guy Austing (NRC)

Spin effects in quantum dots

Christian Glattli (ENS Paris/CEA Saclay)

*The Quantum RC circuit: charge relaxation
resistance and time-resolved single charge injection*

Sergey Kravchenko (Northeastern Univ., Boston)

(to be announced)

Renaud Leturcq (ETH Zurich)

*Spin-dependent transport in double quantum dots
realized in InAs nanowires"*

Tomoki Machida (Tokyo Univ.)

Nuclear spin control in quantum Hall systems

Hiroo Munekata (Tokyo tech.)

Spintronics with magnetic semiconductors

Stefan Oberholzer (Institute of Physics, Basel)

*Electronic correlation measurements in quantum
nano-structures*

James Stotz (PDI)

*Coherent spin transport and manipulation in moving
quantum dots*

Ken Uchida (Toshiba)

*Physics and engineering of thin silicon field-effect
transistors*

Herre van der Zant (TU Delft)

*Transport coupled to vibrational modes in molecular
three-terminal devices and suspended nanotubes*

Venue

The NNCI2007 conference will take place at NTT R&D center in Astugi, Kanagawa, Japan. Access information is available at

<http://www.brl.ntt.co.jp/E/access/access.html>

