Bilateral Workshop on Nanoscale Systems
organized by
Nanosystems Initiative Munich
and
Global COE: Secure-Life Electronics, The University of Tokyo

Thursday, July 10 at Hörsaal III, Physics Department, TU München in Garching, Germany

Program:

08:30 – 08:45 Opening remarks

08:45 – 09:10 J. P. Kotthaus
Non-equilibrium quantum transport through GaAs-based nanostructures

09:10 – 09:35 K. Takeuchi
Silicon Nanoelectronics

09:35 – 10:00 D. Grundler
Spin wave confinement in nanomagnets

10:00 – 10:25 S. Ohya and M. Tanaka
Spintronics

10:25 – 10:55 Coffee break

10:55 – 11:20 H. Fujita
Nanomechanics

11:20 – 11:45 A. Wixforth
Nanoquakes are shaking up NEMS

11:45 – 12:10 H. Tabata
Bioelectronics

12:10 – 12:35 M. Stutzmann
Novel concepts for biosensors and bioelectronic devices

12:35 – 13:20 Lunch Break (Buffet)

13:20 – 13:45 K. Hirakawa
THz Electronics and quantum transport

13:45 – 14:10 J. J. Finley
Tunable photonic crystal nanostructures for solid state cavity QED

14:10 – 14:35 Y. Arakawa
Quantum dots and photonic crystals

14:35 – 15:00 T. Kippenberg
Backaction cooling of micromechanical oscillators

15:00 – 15:25 Coffee break

15:25 – 15:50 K. Hotate
Optical fiber sensors

15:50 – 16:15 M.-C. Amann
Advanced concepts for long-wavelength VCSELs

16:15 – 16:40 M. Ohtsu
Near field optics and photonics

16:40 – 17:05 J. Feldmann
Optical enhancement effects in single plasmonic resonators

17:15 – 17:55 2 minutes Poster presentations (~ 20 posters)

18:00 – 19:30 Postersession (with refreshments and drinks)

19:30 – 21:30 Barbecue Dinner at Walter Schottky Institut in Garching