

新世代研究所 2010 年第 2 回ナノカーボン研究会 及び
蔵王 10 研究会 ―ナノチューブ、グラフェン、ナノカーボンに関する研究会―

日時：2010 年 7 月 20 日（火）、7 月 21 日（水）

場所：たかみや瑠璃倶楽リゾート

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目的：ナノチューブ、グラフェン、ナノカーボンに関する

共通の問題について、研究分野の紹介とあわせておこなう。

Programs

(ATI speakers 18min+6min QA, Senior speakers 14min+4min QA, young speakers 10min+2min QA, in English)

Jul. 20, 2010 (Tue.)

10:00 Bus starts at Graduate School of Science

10:45 Bus starts at Sendai Station

12:00 Lunch

Chairperson R. Saito (Tohoku U.)

13:00 M. Date (ATI) : Opening address

13:05 S. Saito (TIT) : Twisting Carbon Nanotubes

13:29 H. Nishihara (Tohoku U.) : High Pressure Hydrogen Storage in Nanoporous Carbons

13:47 K. Sasaki (NIMS) : Identifying the Orientation of Edge of Graphene Using G Band Raman Spectra

14:11 H. Fukidome (Tohoku U.) : Control of edge chirality of epitaxial graphene on 3C-SiC/Si by using surface orientation of Si substrate

14:29 Y. Sato (Tohoku U.) : HR-EELS study of single-wall carbon nanotube

14:47 N. Mitoma (Tohoku U.) : Toward carrier type control of graphene under atmospheric conditions

14:59 Break

15:30 Free Discussion

18:00 Dinner

Chairperson R. Nouchi (Tohoku U.)

19:15 M. T. Chowdhury (Tohoku U.) : Optical absorption from 1s to 2pz orbitals in graphene

19:27 S. Kodama (Tohoku U.) : Formation of p-n Junction Infrared Solar Cells Using Single-Walled Carbon Nanotubes

19:39 K. Yamamoto (U. Tokyo) : Spring-Like Behavior of 3D Graphene Network

19:51 T. Sato (Tohoku U.) : Generation of nanocarbon materials combined with carbon nanowalls and

single-walled carbon nanotubes by helicon plasma CVD

- 20:03 H. E. Lim (Nagoya U.) : CVD growth of SWCNTs using FeCu bimetal catalysts
20:15 M. Akutsu (Tohoku U.) : Fabrication and Property Control of Thin Film Transistor Using Single-Walled Carbon Nanotubes Grown by Diffusion Plasma CVD
20:27 D. Choi (Nagoya U.) : Synthesis of metal-nanowire@SWNTs and their physical properties
20:39 M. M. Haque (Tohoku U.) : Analysis of Raman active modes of polyynes
20:51 Free Discussion

Jul. 21, 2010 (Wed.)

7:00 Breakfast and check out

Chairperson S. Saito (TIT)

- 8:30 M. Koshino (TIT) : Anomalous orbital diamagnetism of graphenes
8:54 R. Nouchi (Tohoku U.) : Channel-length dependence of field-effect-transistor properties of graphene
9:12 X. Fan (Tohoku U.) : Electrical characteristics of chemically-modified grapheme
9:24 S. Konabe (Tsukuba U.) : Optically Activated Triplet Excitons in Single-Walled Carbon Nanotubes
9:42 A.R.T. Nugraha (Tohoku U.) : Dielectric constant model for the exciton environmental effect of SWNTs
9:54 Break

Chairperson K. Sasaki (NIMS)

- 10:07 K. Sato (Tohoku U.) : Raman intensity calculation of carbon nanotubes
10:25 P. Zhao (U. Tokyo) : Optical spectroscopy of individual carbon nanotubes
10:37 B. Hou (U. Tokyo) : CVD synthesis of graphene from alcohol
10:49 S. C. Cho (Tohoku U.) : High Yield Synthesis of Nitrogen Atom Endohedral Fullerene in RF Discharge Nitrogen Plasmas
11:01 R. Endo (Tohoku U.) : Analytical solution of the pulse sharpening in photonic band gap
11:13 T. Eguchi (Tohoku U.) : Quantum Capacitance of Graphene
11:25 R. Saito (Tohoku U.) : Closing address
11:30 Lunch
12:30 Free Discussion
15:30 Bus starts Hotel
17:00 Arrive at Sendai Station
17:20 Arrive at Tohoku University