

ATI 2014 Nano-Carbon meeting at Zao, 2014.7.31-8.1, Zao, Yamagata

(公財) 新世代研究所ナノカーボン研究会 (蔵王14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: 2014年7月31日(木), 8月1日(金)

場所: ホテルルーセントタカミヤ

住所: 山形県山形市蔵王温泉942 TEL 023-694-9135

主催: (公財) 新世代研究所 及び 東北大学大学院理学研究科

世話人: 東北大学大学院理学研究科 教授 齋藤理一郎

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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の議論を、
研究分野の紹介とあわせて行う。

Programs

(ATI speakers 15min+5min QA, Senior speakers 12min+3min QA, Young speakers 10min+2min QA,
in English)

Jul. 31, 2014 (Thur.)

10:20 Bus starts at Tohoku Univ.

10:45 Bus starts at Sendai Station

12:00 Lunch

Chairperson : R. Kitaura (Nagoya U.)

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

13:05 S. Saito (TIT) : Electronic Properties of Boron-Nitride Nanotubes

13:25 M. Yudasaka (AIST) : Behavior of Carbon Nanohorns in Macrophages In Vivo Influenced
by the Dispersants

Chairperson : S. Saito (TIT)

13:45 F. Komori (U.Tokyo) : Dirac Electrons of Graphene Nanoribbons grown on Vicinal SiC
Substrates

14:05 K. Sasaki (NTT) : Effects of screening on propagation of graphene surface plasmons

14:25 R. Kitaura (Nagoya U.) : CVD growth and properties of transition metal dichalcogenide
atomic layers

14:45 K. Sato (Sendai N.C.of Tech.) : Raman spectra of twisted bilayer graphene

15:05 Break

18:00 Dinner

Chairperson : A. R. T. Nugraha (Tohoku U.)

19:15 M. Mizuno (Tohoku U.) : Anharmonic effects on phonons in carbon nanotubes

19:22 T. R. Czank (Tohoku U.) : Near field exciton-photon matrix element

19:34 Y. Tatsumi (Tohoku U.) : Discrete energy levels in finite-length single wall carbon

19:51 T. Chiba (U. Tokyo) : Single-walled carbon nanotubes as electrodes and hole conductors
for perovskite solar cells

- 20:03 S. Ukhtary (Tohoku U.) : Study of surface plasmon in graphene
- 20:15 S. Siregar (Tohoku U.) : Absence of Raman G' band in the ultra violet excitation regime
- 20:22 P. C. Machad (Tohoku U.) : Near field solution through finite element methods

- 20:24 Free Discussion

Aug. 1, 2014 (Fri.)

7:00 Breakfast and check out

Chairperson : F. Komori (U. Tokyo)

- 8:30 A. R. T. Nugraha (Tohoku U.) : Coherent G-band phonons in single wall carbon nanotubes
- 8:45 S. Kim (U. Tokyo) : Carbon nanotube field-effect transistors with narrow diameter variations
- 9:00 H. Guo (Tohoku U.) : Double resonance Raman scattering in alpha-MoTe₂ few layers
- 9:15 R. Okuyama (Tohoku U.) : Phonon amplification in carbon nanotube via transport
- 9:30 T. Yang (IMR./Tohoku U.) : Strain-induced magnetism in MoS₂ with atomic defects

Chairperson : K. Sasaki (NTT)

- 9:45 T. J. Kleeman (Tohoku U.) : Anisotropic electron-phonon coupling in Rb-intercalated bilayer graphene
- 9:57 S. Zhao (Nagoya U.) : Rayleigh scattering studies on inter-layer interactions in structure-defined individual double-wall carbon nanotubes
- 10:09 Y. Nakanishi (Nagoya U.) : Direct Formation of Diamond Polymers inside Carbon Nanotubes by Thermal Coalescence of Bromo-Diamondoids
- 10:21 Y. Aoki (TIT) : Thermodynamic properties of solids from the first principles: LDA vs GGA in application to titania systems
- 10:33 M. Fujihara (Nagoya U.) : Edge control of graphene by in-plane cleavage
- 10:45 S. Wan (Nagoya U.) : Fabrication of uniform graphene on SiC (0001) by growth rate control
- 10:57 A. Paurya (Tohoku U.) : Polarization dependence of angle resolved photoemission spectroscopy in graphene
- 11:09 E. H. Hasdeo (Tohoku U.) : Asymmetric lineshape in G band Raman spectra of graphene
- 11:21 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