

(公財) 新世代研究所 2012 年第 1 回ナノカーボン研究会 及び  
蔵王 12 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：2012 年 7 月 22 日 (日)、7 月 23 日 (月)

場所：たかみや瑠璃倶楽リゾート

住所：山形県山形市蔵王温泉三度川 1118-7 TEL(023)694-2520 E-mail rurikura@zao.co.jp

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

電話 022-795-7754 E-mail rsaito@flex.phys.tohoku.ac.jp

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. 22, 2012 (Sun.)

10:00 Bus starts at Graduate School of Science

10:45 Bus starts at Sendai Station

12:00 Lunch

Chairperson S. Saito (TIT)

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

13:05 S. Saito (TIT) : Physics of hexagonal BN and its monolayer

13:29 H. Nishihara (Tohoku U.) : New Insights of Zeolite-Templated Carbons

13:47 S. Ittisanronnachai (Tohoku U.) : Hydrogen/Deuterium Spillover in Pt-doped Zeolite-Templated Carbon

14:05 R. Saito (Tohoku U.) : Raman spectra of intervalley combination modes

14:29 R. Kitaura (Nagoya U.) : High resolution TEM imaging of nanostructures on graphene

14:53 Break

15:30 Free Discussion

18:00 Dinner

Chairperson K. Sato (Tohoku U.)

19:15 P. Tapsanit (Tohoku U.) : Near field enhancement of optical transition in carbon nanotube

19:27 Y. Ominato (Tohoku U.) : Orbital diamagnetism of finite-sized graphene

19:39 T. Boanerges (Nagoya U.) : Single-step Gel Filtration of High Purity Semiconducting Carbon Nanotubes

19:51 E.H. Hasdeo (Tohoku U.) : Theory of Electronic Raman Scattering in Metallic Single Walled Carbon Nanotube

20:03 Y. Abiko (Tohoku U.) : Effect of Cs plasma irradiation on semiconductor enriched single-walled carbon nanotubes thin film transistors

- 20:15 Y. Tatsumi (Tohoku U.) : Electronic states in finite length SWNTs  
20:27 F. Simon (Tohoku U.) : Visualization of carbon nanotubes by POV-Ray  
20:39 E. Rosenthal (Nano Japan student) : Mechanical Model of the Coherent Phonon in Carbon Nanotubes  
20:51 Free Discussion

**Jul. 23, 2012 (Mon.)**

7:00 Breakfast and check out

Chairperson R. Saito (Tohoku U.)

- 8:30 K. Nagashio (U. Tokyo) : Is Graphene Contacting Metal Still Graphene?  
8:54 Y.A. Kim (Shinshu U.) : Substitutionally Boron-Doped Single-Layer Graphene  
9:18 T. Thurakitserree (U. Tokyo) : N-doped vertically aligned single-walled carbon nanotubes and their spectroscopy  
9:30 M. Yudasaka (AIST) : Small-sized nanohorns enhance effects of chemical functionalization in nano-bio interaction  
9:54 Break

Chairperson R. Kitaura (Nagoya U.)

- 10:10 H. Fukidome (Tohoku U.) : Can epitaxy of graphene on microfabricated substrate modulate fields?  
10:28 P. Zhao (U. Tokyo) : Surface-adsorptive growth of graphene films on Ni via alcohol catalytic chemical vapor deposition  
10:36 W. Qing (Nagoya U.) : Effect of H<sub>2</sub> Plasma on New Type Graphene Nanoribbon – Flattened Carbon Nanotube  
10:48 A.R.T. Nugraha (Tohoku U.) : Excitonic effects on the coherent phonon oscillation in carbon nanotubes  
11:00 K. Sato (Tohoku U.) : Raman intensity of twisted bilayer graphene  
11:18 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