

ATI 2013 Nano-Carbon meeting at Zao, 2013.7.28-29, Zao, Yamagata

(公財)新世代研究所 2013 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:2013 年 7 月 28 日(日), 7 月 29 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

主催:(公財)新世代研究所及び東北大学大学院理学研究科

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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行う。

Programs

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

Jul. 28, 2013 (Sun.)

10:00 Bus starts at Graduate School of Science

10:40 Bus starts at Sendai Station

12:00 Lunch

Chairperson R. Kitaura (Nagoya U.)

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

13:05 Enoki (TIT) :Important role of edge geometry and chemical structures in the electronic structure of nanographene

13:29 S.Saito(TIT) : Electronic Properties of Graphene- and Silicene-Based Composite Atomic-Layer Materials

13:53 H. Kataura (AIST) : Structure Sorting of Single-Wall Carbon Nanotubes using Gel Column Chromatography

14:17 M. Yudasaka (AIST) : Interaction of nanocarbons with living tissue

14:41 K. Sugawara (Tohoku U. WPI) : Electronic structure of Ca intercalated bilayer graphene studied by ARPES

14:59 Break and Free Discussion

18:00 Dinner

Chairperson R. Saito (Tohoku U.)

19:15 E.H. Hasdeo (Tohoku U.) : Quantum interference effect in Raman spectra of carbon nanotubes

19:27 Y. Aoki (TIT) : A brief introduction of TiO₂: Fundamentals and applications

19:39 M. Mizuno(Tohoku U.) : Anharmonic effects of phonon in carbon nanotubes

19:51 T.R.Czank (Tohoku U.) : Electro-magnetic field in Tip Enhanced Electronic Raman Spectroscopy
20:03 H. Kamimura (Tokyo U. of Science): History of Graphite Intercalation Compounds
20:30 Free Discussion

Jul. 29, 2013 (Mon.)

7:00 Breakfast and check out

Chairperson Y.A. Kim (Shinshu U.)

8:30 R. Kitaura (Nagoya U.) : Fabrication and TEM-based characterization of free-standing nanocarbon devices

8:54 K. Sato (Sendai N.C.of Tech.): Fermi energy dependent Raman spectra of graphene

9:18 Wenjun Llu (U. Tokyo) : Vth shift in back-gate single-layer graphene field-effect transistors

9:36 Alberto Castro Muniz (Tohoku U.) : Carbon-coated film with a hexagonal array of straight nanochannels as biofuel cell electrodes

9:54 break

Chairperson K. Sugawara (Tohoku U. WPI)

10:10 Bai-Gang An (Tohoku U.) : Enhanced bonding of rubber on the edge sites of carbon blacks

10:28 Thomas James Kleeman (Tohoku U.) : Electronic Structure of Alkali Doped Bilayer Graphene on SiC(0001) studied by high-resolution ARPES

10:40 Y.A. Kim (Shinshu Univ.) : Substitutionally Boron-doped Single Layer Graphene

11:04 Sihan Zhao(Nagoya U.) : In-situ TEM Observation of Thermal Reactions of Nanocarbon Materials with Home-made Very High Temperature Compatible Heating Holder

11:16 A.R.T. Nugraha (Tohoku U.) : Theory of coherent phonons in carbon nanotubes

11:28 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