

International Workshop on Nonlinear Energy Localization in Crystals and Related Media

December 2-3, 2016

Kyoto International Exhibition Hall "Miyako Messe", Kyoto, Japan

2016.12.2 (Fri.)

- 9:40-9:50 Opening
- 9:50-10:30 Search of discrete breathers in unstrained graphene
 Sergey V. Dmitriev (Institute for Metals Superplasticity Problems of Russian Academy of Sciences), Ivan P. Lobzenko, Andrey A. Kistanov, Elena A. Korznikova
- 10:30-10:55 Variety of discrete breathers in fcc crystals
 Elena A. Korznikova (Institute for Metals Superplasticity Problems of Russian Academy of Sciences), Andrey A. Kistanov, Sergey V. Dmitriev
- 10:55-11:05 break
- 11:05-11:30 Properties of discrete quasibreathers and Rosenberg modes in graphene by means of classical and quantum molecular dynamics
 Ivan Lobzenko (Toyota Technological Institute), George Chechin, Alexandr Chetverikov, Sergey Dmitriev
- 11:30-11:55 Role of Intrinsic Localized Modes in Atomic Structures: Trigger of Stone-Wales
 Defect Formation in Carbon Nanotubes
 Takahiro Shimada (Kyoto University), Takayuki Kitamura
- 11:55-13:20 Lunch
- 13:20-14:00Mobile breather scattering in a 2D hexagonal crystal latticeJ. Chris Eilbeck (Heriot-Watt University)



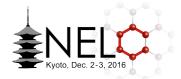
14:00-14:40	Localized nonlinear excitations in silicate layers
	Juan F.R. Archilla (University of Sevilla)
14:40-15:05	Mobile discrete breathers and symmetry of pairwise interaction in crystals
	Yusuke Doi (Osaka University), Akihiro Nakatani
15:05-15:30	Moving Intrinsic Localized Modes and Its Behavior at Junction between Two Different
	Lattices
	Masayuki Kimura (Kyoto University), Ryo Tsujisaka, Yoshiharu Taniguchi, Yasuo
	Matsushita, and Takashi Hikihara
15:30-15:50	Break
15:50-16:15	Defects in single-walled carbon nanotubes investigated by atomic force microscopy
	and its related techniques
	Yuji Miyato (Osaka University), Kei Kobayashi, Hirofumi Yamada
16:15-16:40	Existence and stability of odd and even parity discrete breathers in Fermi-Pasta-Ulam
	lattices
	Kazuyuki Yoshimura (Tottori University)
Evening	Banquet

2016.12.3 (Sat.)

 10:00-10:40 Confining interparticle potential makes both heat transport and energy diffusion anomalous in one-dimensional phononic systems
 Yuriy A. Kosevich (Semenov Institute of Chemical Physics, Russian Academy of Sciences), Alexander V. Savin

10:40-11:20 Non-universal heat correlation functions and their anomalous scaling in onedimensional systems

Daxing Xiong (Fuzhou University), Jun Zhang



- 11:20-11:45 Contact geometric approaches to nonlinear RLC circuit lattices in contact with heat bath Shin-itiro Goto (Kyoto University)
- 11:45-13:20 Lunch
- 13:20-14:00 Wave Propagation in Origami-based Mechanical Metamaterials Hiromi Yasuda (Washington University), Jinkyu Yang
- 14:00-14:25 Making of air-levitation-type coupled oscillator array and experiments on excitation of intrinsic localized modes
 Yosuke Watanabe (Osaka University), Mai Nishimoto, Chika Shiogama
- 14:25-14:50 Traveling Intrinsic Localized Modes in Nonlinear Driven Damped LatticesM. Sato (Kanazawa University), S. Shige, T. Mukaide and A. J. Sievers
- 14:50-15:00 Closing