



NATIONAL INSTITUTE FOR MATERIALS SCIENCE
1-1, NAMIKI, TSUKUBA, IBARAKI 305-0044, JAPAN

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Everybody is welcome to attend:

“Workshop on Recent Theoretical Advances in Thermoelectrics”

Date: December 11th (Wednesday), 2024

Time: 14:00 – 17:20

Place: NIMS, Namiki Site, MANA building, Room 431 (Namiki 1-1, Tsukuba 305-0044 Japan)

14:00-14:20

Professor Hidetoshi Fukuyama
(Professor, Tokyo University of Science
Emeritus Professor, University of Tokyo)

“Materials and electronic states leading to remarkable thermoelectric effects”

14:20-14:40

Professor Manaho Matsubara
(Tokyo University of Science)

“Exploring high-performance thermoelectric materials based on linear response theory”

14:40-15:00

Professor Jean-Francois Halet
(Rennes University)

“How to Improve the Seebeck Coefficient of Thermoelectric Cluster-Based Molybdenum Chalcogenide Compounds. A Theoretical Approach”

15:00-15:15

Dr. Guillaume Lambard
(NIMS, Center for Basic Research on Materials)

“Active learning applied to the process optimization of kesterite-based ceramics for enhancing their thermoelectric performances”

15:15-15:30

Dr. Naoki Sato
(NIMS, MANA)

“Low lattice thermal conductivity in mixed-anion materials”

15:30-15:50

Professor Regis Gautier



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(Rennes University)

“A Theoretical Insight into the Structural and Transport Properties of Thermoelectric Sulphides”

~15:50-16:00~ Break (Free Discussion)

16:00-16:20

Professor Hiroyasu Matsuura

(University of Tokyo)

“Theory of phonon drag effect in $(\text{TMTSF})_2\text{PF}_6$ ”

16:20-16:30

Dr. Kazuaki Kobayashi

(NIMS, MANA)

“First principles calculations on M-doped CoSb_3 thin films (M = Sc, Ti, V, and Mn)”

16:30-16:45

Dr. Yukari Katsura

(NIMS, Center for Basic Research on Materials)

“Data-driven, chemistry-oriented search for new thermoelectric materials”

16:45-17:00

Prof. Jean-Claude Crivello

(NIMS/LINK)

“A theoretical doping study on $\text{Cu}_2\text{ZnSnS}_4$ based compounds”

17:00-17:20

Professor Masao Ogata

(University of Tokyo)

“Seebeck and Nernst effect by phonon drag”

18:00-20:00

Banquet (Restaurant near Tsukuba Station)

Contact: Takao Mori (Thermal Energy Materials Group), Naoki Sato (Thermal Energy Materials Group)

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For banquet participation (each person pays own fee-likely around 6.000 yen for all you can drink & Japanese food course), please contact Naoki SATO <SATO.Naoki@nims.go.jp> by