

Workshop on Recent Theoretical Advances in Thermoelectrics



11th
December
2024

14:00 - 17:20

Program

Hidetoshi Fukuyama (Tokyo Univ. Science, U. Tokyo) 14:00-14:20 "Materials and electronic states leading to remarkable thermoelectric effects"

Manaho Matsubara (Tokyo Univ. Science) 14:20-14:40 "Exploring high-performance thermoelectric materials based on linear response theory"

Jean-Francois Halet (Rennes Univ.) 14:40-15:00 "How to Improve the Seebeck Coefficient of Thermoelectric Cluster-Based Molybdenum Chalcogenide Compounds. A Theoretical Approach"

Guillaume Lambard (NIMS, CBRM) 15:00-15:15 "Active learning applied to the process optimization of kesterite-based ceramics for enhancing their thermoelectric performances"

Naoki Sato (NIMS, MANA) 15:15-15:30 "Low lattice thermal conductivity in mixed-anion materials"

Regis Gautier (Rennes Univ.) 15:30-15:50 "A Theoretical Insight into the Structural and Transport Properties of Thermoelectric Sulphides"

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

Hiroyasu Matsuura (U. Tokyo) 16:00-16:20 "Theory of phonon drag effect in $(\text{TMTSF})_2\text{PF}_6$ "

Kazuaki Kobayashi (NIMS, MANA) 16:20-16:30 "First principles calculations on M-doped CoSb_3 thin films (M = Sc, Ti, V, and Mn)"

Yukari Katsura (NIMS, CBRM) 16:30-16:45 "Data-driven, chemistry-oriented search for new thermoelectric materials"

Jean-Claude Crivello (NIMS, LINK) 16:45-17:00 "A theoretical doping study on $\text{Cu}_2\text{ZnSnS}_4$ based compounds"

Masao Ogata (U. Tokyo) 17:00-17:20 "Seebeck and Nernst effect by phonon drag"

~Closing comments~ (Takao Mori, NIMS, MANA)

Banquet 18:00-20:00 (Restaurant near Tsukuba Station)

Venue | MANA Building, 4F, 431 Meeting Room, Namiki

Chair | Takao Mori (Deputy Director, MANA)

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