

International Symposium of Structural Thermodynamics for Young Thermodynamicists: ISST-YT

June 8-9, 2018, Osaka University, Osaka, JAPAN

Room; Nambu Yoichiro Hall (2nd floor, Building J, Graduate School of Science)

Keynote Lecture: 45 min (40 min talk + 5 min discussion)

Oral Presentation: 15 min (10 min talk + 5 min discussion)



Friday, June 8, 2018

●**Opening Remarks:** 13:00 – 13:10

Motohiro Nakano (Osaka University)

— *Chair: Yasuhiro Nakazawa* —

●**Keynote Lecture 1:** 13:10 – 13:55

Alexander Krivchikov (National Academy of Sciences of Ukraine)

A new paradigm of glassy thermal anomaly of molecular solid

— *Chair: Yoji Horii* —

●**O1:** 13:55 – 14:10

Tetsuya Nomoto (Osaka University)

Low temperature electronic state of organic conductors probed by thermal conductivity measurement

●**O2:** 14:10 – 14:25

Suguru Kitani (Tokyo Institute of Technology)

Low-temperature properties of $S = 3/2$ hyperkagome antiferromagnet $\text{Zn}_2\text{Mn}_3\text{O}_8$

●**O3:** 14:25 – 14:40

Kiyonari Takahashi (Hokkaido University)

Multiple molecular motion in the $[\text{Ni}(\text{dmit})_2]$ salts of supramolecular rotator

— **Coffee Break:** 14:40 – 15:00 —

— **Chair:** Kiyonori Takahashi —

●O4: 15:00 – 15:15

Shuhei Fukuoka (Hokkaido University)

Low temperature magnetic state of λ -(BEDT-STF)₂FeCl₄

●O5: 15:15 – 15:30

Ayaka Aoki (Kindai University)

Inclusion of ionic liquid with cyclodextrin in water

●O6: 15:30 – 15:45

Shigesaburo Ogawa (Seikei University)

Thermotropic phase behavior of long-chain trehalose fatty acid monoesters

●O7: 15:45 – 16:00

Kohei Kanda (Yokohama National University)

Production of Fe_{3-x}Zn_xO₄ nanoparticles for agents in hyperthermia treatment and MR imaging

●O8: 16:00 – 16:15

Akito Oshima (Yokohama National University)

Magnetic hyperthermia effect of Co-Zn ferrite nanoparticles modified with PEG

— **Coffee Break:** 16:15 – 16:35 —

— **Chair:** Satoshi Yamashita —

●O9: 16:35 – 16:50

Sezonenko Tetiana (Osaka University)

Dehydration, self-association, and phase separation behavior of thermosensitive polyoxazoline star block-copolymers in aqueous solution

●O10: 16:50 – 17:05

Chen Kuang (Osaka University)

Micellization and phase separation in aqueous solutions of poly(*N*-isopropylacrylamide)-*b*-poly(*N*-vinyl-2-pyrrolidone) upon heating

●**O11:** 17:05 – 17:20

Yoji Horii (Osaka University)

Methodology for construction of a 2D aggregate of molecular rotors

●**O12:** 17:20 – 17:35

Satoshi Yamashita (Osaka University)

Vibrational energy transfer from heme through atomic contacts in proteins

●**O13:** 17:35 – 17:50

Koki Fujiwara (Yokohama National University)

Suppression of Jahn-Teller distortion and medical application of Cu-ferrite nanoparticles

— **Reception Party (Cafeteria, La forêt): 18:00** —



Google Map for
Cafeteria, La forêt

Saturday, June 9, 2018

— **Chair: Hiroki Akutsu** —

●**Keynote Lecture 2:** 9:30 – 10:15

Lee Martin (Nottingham Trent University)

Development of molecular materials which combine multiple physical properties

●**O14:** 10:15 – 10:30

Shusaku Imajo (The University of Tokyo)

Development of high-resolution calorimetry and heat capacity measurement technique

●**O15:** 10:30 – 10:45

Robert J. Marckwardt (Osaka University)

Critical features around the phase boundary between Fermi liquid and spin liquid

— **Coffee Break:** 10:45 – 11:05 —

— **Chair:** *Shuhei Fukuoka* —

●**O16:** 11:05 – 11:20

Yuki Matsumura (Osaka University)

Lattice instability and enhancement of electron correlation near the Mott boundary

●**O17:** 11:20 – 11:35

Masami Nirei (The University of Tokyo)

Calorimetric and neutron scattering study on glass transitions of alkylated tetraphenylporphyrins

●**O18:** 11:35 – 11:50

Yoshinori Ato (Osaka University)

Theoretical study of correlations between the coordination structures and catalytic activities in polymer-stabilized Au nanocluster catalysts

●**O19:** 11:50 – 12:05

Hal Suzuki (Kindai University)

Low-temperature heat capacity of water molecules encapsulated in fullerenes C₆₀

— **Lunch Break:** 12:05 – 13:05 —

— **Chair:** *Yuji Miyazaki* —

●**Keynote Lecture 3:** 13:05 – 13:50

Yuko Ichiyanagi (Yokohama National University & Osaka University)

Heat dissipation of magnetic nanoparticles and biomedical applications

●**O20:** 13:50 – 14:05

Hiroshi Akiba (The University of Tokyo)

Neutron diffraction study on nanoparticles of PdRu-based alloys realized by entropy effects

●**O21:** 14:05 – 14:20

Atsushi Nagoe (Kokushikan University)

Slow dynamics of cross-linked dextran gel Sephadex G-10 of anhydrous or containing water

— Coffee Break: 14:20 – 14:40 —

— *Chair: Atsushi Nagoe* —

●O22: 14:40 – 14:55

Nobuaki Azuma (Okayama University)

Unexpected increase of glass transition temperature of hexagonal ice caused by surface adsorption of antifreeze protein to ice

●O23: 14:55 – 15:10

Sotaro Fukuchi (Osaka University)

Angle resolved magnetic heat capacity in molecular superconductors

●O24: 15:10 – 15:25

Satoshi Yamashita (Osaka University)

Thermodynamic study on charge-ordering in organic dimer Mott systems

●O25: 15:25 – 15:40

Marika Yokota (Chiba Institute of Technology)

Molecular vibration analysis of amorphous poly(alken)s, poly(ester)s and poly(vinyl)s on heat capacity below glass transition temperature

●Closing Remarks: 15:40 – 15:50

Motohiro Nakano (Osaka University)

Access Map



Google Map for
Nambu Yoichiro Hall

