

Australia-Japan Workshop on Neutron Science

March 04, 2016, Large Meeting Room, J-PARC Research Building

Oral

| Time | Event | Title | Presenter | Affiliation |
|-------|---------|--|-------------------------------------|------------------------|
| 09:00 | Opening | | M. Shibayama & R. Robinson | Univ. of Tokyo & ANSTO |
| 09:10 | Oral1 | Structural Origin of the Anisotropic and Isotropic thermal Expansion of K ₂ NiF ₄ -Type Oxides | Masatomo Yashima (Yashima Gp.) | TITECH |
| 09:35 | Oral2 | New Perovskite-Related Structure Family of Oxide-Ion Conducting Materials NdBaInO ₄ | Kotaro Fujii (Yashima Gp.) | TITECH |
| 10:00 | Oral3 | Overview and recent highlights of neutron diffraction research at OPAL | Maxim Avdeev | ANSTO |
| 10:25 | Break | | | |
| 10:45 | Oral4 | Magnetic correlations in the high-T _c cuprate superconductors | Kensuke M. Suzuki (Fujita Gp.) | Tohoku Univ. |
| 11:10 | Oral5 | Magnetic Order of Buckled Honeycomb Lattice Antiferromagnet Ba ₂ NiTeO ₆ | Sinichiro Asai (Masuda Gp.) | Univ. of Tokyo |
| 11:35 | Oral6 | Structural Analysis of Lipophilic Polyelectrolyte Solutions and Gels in Low-Polar Solvents | Mitsuhiro Shibayama (Shibayama Gp.) | Univ. of Tokyo |
| 12:00 | Lunch | | | |
| 13:00 | Poster | | | |
| 14:25 | Oral7 | Nano structural studies with SANS by KUR group | Masaaki Sugiyama (Sugiyama Gp.) | Kyoto Univ. |
| 14:50 | Oral8 | Recent Highlights from QUOKKA - the monochromatic Small Angle Neutron Scattering instrument at OPAL - | Elliot Gilbert | ANSTO |
| 15:15 | Oral9 | Neutron scattering study of novel chiral magnets and ladder superconductors | Taku Sato (Sato Gp.) | Tohoku Univ. |
| 15:40 | Closing | | Jamie Schulz | ANSTO |

Poster (13:00 - 14:25)

| # | Title | Presenter | Affiliation |
|----|---|--|----------------|
| 1 | Titanium-based perovskite oxyhydrides | Yoji Kobayashi | Kyoto Univ. |
| 2 | Surfactant Molecules Behaving as Surface-Inactive Agents | Koichiro Sadakane | Doshisha Univ. |
| 3 | Magnetic Structure of the S=1/2 Quasi-Two-Dimensional Square-Lattice Heisenberg Antiferromagnet Sr ₂ CuTeO ₆ | Tomoyuki Koga | TITECH |
| 4 | Anomalous magnetic small-angle neutron scattering in severely deformed pure Fe | Yojiro Oba | Kyoto Univ. |
| 5 | Crystal structure and improved oxide-ion conductivity of NdBaInO ₄ -based materials | Masahiro Shiraiwa | TITECH |
| 6 | Crystal structure of CaFe ₂ O ₄ -type BaNd ₂ O ₄ and related materials | Keisuke Hibino | TITECH |
| 7 | Thermoresponsive behavior of radiation-fabricated porous binary hydrogels as revealed by small-angle neutron scattering | Nobuhiro Sato | Kyoto Univ. |
| 8 | Solvated Structure and Molecular Interactions of Thermo-responsive Polymer in Ionic Liquid | Kazu Hirosawa (Mitsuhiro Shibayama) | Univ. of Tokyo |
| 9 | Structural Analysis of Critical Polymer Clusters near gelation point | Xiang Li | Univ. of Tokyo |
| 10 | Giant volumetric expansion as a relief of magnetic geometric frustration on Kagome lattice | Bing Li | J-PARC |
| 11 | Structural analysis on protein in solution by SANS | Rintaro Inoue | Kyoto Univ. |
| 12 | ECHIDNA - High Resolution Powder Diffractometer | Max Avdeev | ANSTO |
| 13 | Magnetic structure of some battery materials and why it matters | Max Avdeev | ANSTO |
| 14 | Group theory assisted neutron powder diffraction studies of magnetic and displacive structural phase transitions in novel perovskites | Max Avdeev | ANSTO |
| 15 | P2-type: crystallography, crystal chemistry, and how to avoid Na ⁺ ordering | Max Avdeev | ANSTO |
| 16 | QUOKKA - The 40 M Pinhole SANS Instrument at the OPAL Reactor | Elliot Gilbert | ANSTO |
| 17 | Residual Stresses in High Strength Steel Columns for Large Scale Infrastructure | Anna Paradowska | ANSTO |
| 18 | Residual Stresses and Effect on Structural Integrity in Gas Pipeline Hot-Tap Junction | Anna Paradowska | ANSTO |
| 19 | Residual stress in railway rails components measured by neutron diffraction | Anna Paradowska | ANSTO |
| 20 | Polarised Neutron Scattering Research Capability at ANSTO | Hal Lee | ANSTO |