

Workshop IV : Complementary Applications of X-rays and Neutrons

Organizer: Shih-Chun Chung (鍾世俊)

September 13 (Thursday)

Place: D260

08:30 Registration

09:00 **Workshop Opening Remarks**

Chun-Jung Chen (陳俊榮), NSRRC (國家同步輻射研究中心)

Session Chair: Wen-Hsien Li (李文献)

09:10 IV1 **Opportunities for Research Using ANSTO's OPAL Research Reactor**

Jamie Schulz, ANSTO, Australia

09:50 IV2 **Neutron Inelastic Scattering with SIKA and Its Comparison of X-ray Inelastic Scattering**

Shin-ichiro Yano (矢野真一郎), NSRRC (國家同步輻射研究中心)

10:20 Coffee Break

Session Chair: Ya-Sen Sun (孫亞賢)

10:40 IV3 **Wombat and Echidna, the Two World Class Neutron Powder Diffractometers in the OPAL Reactor**

Chin-Wei Wang (王進威), NSRRC (國家同步輻射研究中心)

11:20 IV4 **Application of Neutron Diffraction and X-ray Diffraction in Magnetic Materials**

Maxim Avdeev, ANSTO, Australia

12:00 Lunch

Workshop IV : Complementary Applications of X-rays and Neutrons (Continued)

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Session Chair: Chun-Ming Wu (吳淩銘)

- 13:30 IV5 **From Excitations to Diffusion: Exploring Matter with Inelastic Neutron Scattering**
Richard Mole, ANSTO, Australia
- 14:00 IV6 **Interplay of Spin, Orbital and Lattice Correlations in an XY-like Spin-glass (Ni_{0.4}Mn_{0.6})TiO₃ Single-crystal: Neutron and X-ray Studies**
Way-Faung Pong (彭維鋒), Tamkang University (淡江大學)
- 14:30 IV7 **Examples of Neutrons for Structure and Dispersion in Solids**
Wen-Hsien Li (李文献), National Central Univ. (國立中央大學)
- 15:00 IV8 **The Behaviors of the Lithium and Sodium Ions in Negative Electrodes for Metal-ion Batteries**
Chia-Chin Chang (張家欽), National Univ. of Tainan (國立臺南大學)

15:30 Coffee Break

Session Chair: Kuen-Song Lin (林錕松)

- 15:50 IV9 **Thermal transport and Inelastic Neutron Scattering on Sb Doped GeTe Crystals**
Min-Nan Ou (歐敏男), Academia Sinica (中央研究院)
- 16:15 IV10 **Effects of Cross-linking Density of UV Irradiated Polystyrene Chains on Domain Orientation and Spatial Order of Block Copolymer Nanodomains**
Ya-Sen Sun (孫亞賢), National Central Univ. (國立中央大學)
- 16:40 IV11 **Probing Detail Crystal and Magnetic Structure of Perovskite Oxide Utilizing X-ray and Neutron Powder Diffraction**
Wei-Tin Chen (陳威廷), National Taiwan Univ. (國立臺灣大學)
- 17:05 IV12 **Probing the P450 Enzymes Intrinsic Channels by Molecular Dynamics Simulations and X-ray/Neutron Scattering**
Hsiao-Chin Yang (楊小青), Fu Jen Catholic Univ. (輔仁大學)
- 17:30 **Discussion & Workshop party**
Shih-Chun Chung (鍾世俊), NSRRC (國家同步輻射研究中心)

18:00