

NanoDynamics Beamline Workshop Program

Page 1 of 2

Thursday, May 22

Introductory Session

10:00 – 10:02	A. Baron	Chair: K. Yamada <i>Workshop Opening</i>
10:02 – 10:07	M. Takata	<i>Greeting</i>
10:07 – 11:00	A. Baron	<i>Beamline Outline & Perspective</i>

11:00 – 11:10 **Coffee Break**

Phonons I*

11:10 – 11:50	D. Reznik	Chair: M. Arai <i>A Case for High Intensity IXS based on Inelastic X-Ray and Neutron Scattering Studies of the Cuprates</i>
11:50 – 12:10	K. Ohwada	<i>Intrinsic ferroelectric instability in Pb(In_{1/2}Nb_{1/2})O₃ revealed by changing B-site randomness : Inelastic x-ray scattering</i>
12:10 – 12:30	K. Nakajima	<i>New Opportunities and a View from Neutron Spectroscopy at J-PARC</i>

12:30 – 13:15 **Lunch**

Liquids & Glasses I

13:15 – 13:55	T. Scopigno	Chair: Y. Kawakita <i>Inelastic X-ray Scattering with meV resolution: frontiers in non crystalline materials science</i>
13:55 – 14:15	M. Inui	<i>Collective dynamics and the metal-nonmetal transition in supercritical fluid Hg: the picture from viscoelastic theory and the static structure factor</i>
14:15 – 14:35	K. Matsuda	<i>Study of expanded fluid alkali metals</i>
14:35 – 14:55	Y. Kajihara	<i>Dynamical Inhomogeneity in Liquid Te Near Melting</i>

14:55 – 15:05 **Coffee Break**

Liquids & Glasses II

15:05 – 15:25	T. Ichitsubo	Chair: H. Fukuyama <i>Different sound velocities observed from ultrasonic and IXS experiments in a Pd-based metallic glass</i>
15:25 – 15:45	Y. Kawakita	<i>Phonon dispersion of metallic glass CuZr₂</i>
15:45 – 16:00	D. Ishikawa	<i>Toward Dynamics at Liquid Surfaces by IXS</i>

High Pressure

16:00 – 16:20	H. Fukui	Chair: M. Inui <i>Precise Elastic Constant Determination by IXS</i>
16:20 – 16:40	Y. Katayama	<i>Liquids Under Pressure</i>
16:40 – 17:00	E. Ohtani	<i>Perspectives of high pressure IXS study in Earth Science: Study of the Earth's Core</i>

17:00 – 17:10 **Coffee Break**

New Direction: Electronic Excitations I* Chair: **J. Mizuki**

17:10 – 17:30	T. Tohyama	<i>Resonant and Non-Resonant IXS in the Cuprates</i>
17:30 – 17:50	K. Ishii	<i>Electronic excitations studied by resonant inelastic x-ray scattering</i>
17:50 – 18:10	N. Hiraoka	<i>Non-resonant inelastic x-ray scattering experiments in the Taiwan IXS beamline</i>
18:10 – 18:30	A. Baron	<i>Toward High-Resolution Measurements of Electronic Excitations</i>

18:30 – 20:00 **Banquet (K. Yamada MC)**

*Note: Division into sections for Phonons I & II and Electronic Excitations I&II is to accommodate some people who will only be available for part of the time.

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Page 2 of 2

Friday, May 23

09:00 - 09:10 T. Ishikawa, Greeting

New Direction: Electronic Excitations II, Chair: T. Tohyama

09:10 – 09:30	S. Shin	<i>High resolution soft X-ray inelastic scattering on solids and liquids.</i>
09:30 – 09:50	S. Tajima	<i>Proposal from Optical Spectroscopy</i>
09:50 – 10:10	H. Okamura	<i>Heavy fermion states in f-electron systems probed by infrared spectroscopy</i>

10:10-10:25 Coffee Break

Phonons II

Chair: **D. Reznik**

10:25 – 10:45	K. Hirota	<i>Rattling Modes in Pyrochlores</i>
10:45 – 11:05	S. Tsutsui	<i>Guest Modes in Filled Skutterudites and Related Compounds by Inelastic X-ray Scattering</i>
11:05 – 11:25	K. Tomiyasu	<i>Effects of magnetoelastic coupling and orbital wave on phonons in the strongly correlated electron system CoO</i>

11:25 – 11:35 Coffee Break

Short Suggestions for Experiments & Proposal Strategy (A. Baron)

11:35-12:15

12:15 Workshop Closing

12:15 – 13:30 Lunch

13:30 BL35 Tour for those interested.