

LAM-18 Conference

Local Conference Programme

Day 1 - Monday 5th, September 2022

9:20-9:30	Welcome/Introduction	Organizers
9:30-10:10	Plenary Session I Plenary Talk Medium-range Order and Cluster Connectivity	Xun-Li Wang PL1 City University of Hong Kong, China
10:10-11:00	Session A1 Structural Properties of Glasses	
10:10-10:40	Invited Talk The Intermediate-Range Structure of Glasses as seen from their Magnetic Properties and Under an Optical Microscope	Giancarlo Jug IL1 Università dell'Insubria, Italy
10:40-11:00	Structural Origin of Temperature Memory Effect of Quenched Strain in Metallic Glasses	Masato Ohnuma O1 Hokkaido University, Japan
11:00-11:20	Coffee Break	
11:20-12:05	Session A2 Synthesis of Metallic Glasses	
11:20-11:45	Local Committee Member Talk Synthesis and Mechanical Property of Highly Structure Controlled Metallic Glasses by Thermal Rejuvenation Technique	Junji Saida CL1 Tohoku University, Japan
11:45-12:05	High-entropy design and its influence on glass-forming ability in Zr–Cu-based metallic glass	Yusuke Ohashi O2 Tohoku University, Japan
12:05-14:00	Lunch	
14:00-15:30	Session A3 Dynamic Properties of Metallic Glasses	
14:00-14:30	Invited Talk Dynamic heterogeneities in undercooled metallic alloys	Noel Jakse IL2 Université Grenoble-Alpes, France

14:30-14:50	Relaxation dynamics of glass forming metals: Study of aging anelasticity and supercooled liquid behavior in a ZrTiCuNiBe alloy	Eloi Pineda Universitat Politècnica de Catalunya, Spain	O3
14:50-15:10	Emergent structural heterogeneity and it's effect on viscosity and transport in a model binary metallic glass	Peter Michael Derlet Paul Scherrer Institute, Switzerland	O4
15:10-15:30	Creation of Three-Dimensional Relaxation State Gradient in Zr ₅₀ Cu ₄₀ Al ₁₀ Metallic Glass Through a Thermal Process	Rui Yamada Tohoku University, Japan	O5

15:30-15:50 Coffee Break

15:50-17:50 Poster Session PS1

Day 2 - Tuesday 6th, September 2022

9:20-10:00	Plenary Session II		
	Plenary Talk	Takeshi Egami	PL2
	How the Liquid Structure is Formed; Bottom-up, Top-down, or Both?	University of Tennessee, USA	

10:00-10:50 Session A4
Dynamic Properties

10:00-10:30	Invited Talk	Alfred Q.R. Baron	IL3
	Hydrodynamic Interaction Between Quasi-elastic and Acoustic Modes Observed by Inelastic X-Ray Scattering	RIKEN SPring-8 Center, Japan	

10:30-10:50	<i>Ab initio</i> Study of Collective Excitations in Liquid Sb	Ari Paavo Seitsonen	O6
		École Normale Supérieure, France	

10:50-11:10 Coffee Break

11:10-12:15 Session A5
Phase Transition in Liquids

11:10-11:35	Local Committee Member Talk	Yukio Kajihara	CL2
	Interpretation of thermodynamic anomalies of liquid water in terms of critical fluctuations	Hiroshima University, Japan	

11:35-11:55	Phase relation between supercooled liquid and amorphous Silicon	Junpei T. Okada Tohoku University, Japan	O7
	Cancelled		O8

11:55-14:00 Lunch

14:00-15:15 Session A6 Structure I

14:00-14:30	Invited Talk Structure of amorphous Cu-Ge-Te and the implications for its functionality	Jens Rüdiger Stellhorn Hiroshima University, Japan	IL4
14:30-14:55	Local Committee Member Talk X-ray and neutron diffraction of semi-crystalline isotactic poly (4-methyl-1-pentene) with alkane absorption	Ayano Chiba Keio University, Japan	CL3
14:55-15:15	Direct observation of concentration fluctuations in Au-Si eutectic liquid by small-angle neutron scattering	Yoshifumi Sakaguchi Comprehensive Research Organization for Science and Society (CROSS), Japan	O9

15:15-15:35 Coffee Break

15:35-16:20 Session A7 Dynamic and Transport Properties

15:35-16:00	Local Committee Member Talk Structural Relaxation in Complex Liquid Metals Antimony and Bismuth by Means of Coherent Quasi-Elastic Neutron Scattering and Time -Space Correlation Function	Yukinobu Kawakita Japan Atomic Energy Agency, Japan	CL4
16:00-16:20	Estimating Thermal Conductivity of Silver Chalcogenides Using Machine-Learning Interatomic Potentials	Kohei Shimamura Kumamoto University, Japan	O10

16:20-16:40 Coffee Break

16:40-18:40 Poster Session PS2

Day 3 - Wednesday 7th, September 2022

9:20-10:00	Plenary Session III		
	Plenary Talk	Yang Ren	PL3
	Supercritical Elasticity and Structural Entanglement of Multicomponent alloys	City University of Hong Kong, China	

10:00-11:15 Session A8

Liquids and Glasses under Pressure

10:00-10:30	Committee Member Talk	Andrea Di Cicco	CL5
	Investigation of local structural changes in GeSe ₂ glass under ultra-high pressure	University of Camerino, Italy	
10:30-10:55	Local Committee Member Talk	Satoshi Ohmura	CL6
	Bonding and structure of liquid iron-light-element-oxygen ternary alloys under high pressure: molecular dynamics simulations	Hiroshima Institute of Technology, Japan	
10:55-11:15	Inelastic X-ray scattering measurements of liquid Fe-S at high pressure	Yoichi Nakajima	O11
		Kumamoto University, Japan	

11:15-11:35 Coffee Break

11:35-12:45 Session A9

Properties under Pressure and Shear Strain

11:35-12:05	Committee Member Talk	Jean-François Wax	CL7
	Simulation study of the collective excitations in liquid sodium under high pressure	Université de Lorraine, France	
12:05-12:25	Structure of liquid Cd under high-pressure condition	Fabio lesari	O12
		Aichi Synchrotron Radiation Center, Japan	
12:25-12:45	<i>Ab initio</i> simulation for the ductility mechanism of silver chalcogenides	Hinata Hokyo	O13
		Kumamoto University, Japan	

12:45-14:00 Lunch

14:00-15:30 Session A10			
Properties of Metallic Glasses			
14:00-14:30	Invited Talk Reverse Monte Carlo modeling: state of affairs and applications to metallic glasses	László Pusztai Wigner Research Centre for Physics, Hungary	IL5
14:30-15:00	Invited Talk Long-time and intermittent structural evolution of metallic glasses	Robert Maaß Federal Institute for Materials Research and Testing (BAM), Germany	IL6
15:00-15:30	Invited Talk Decoupling between thermodynamic and dynamical glass transitions in high-entropy metallic glasses	Takeshi Wada Tohoku University, Japan	IL7

15:30-15:50 Coffee Break

15:50-17:00 Session A11			
Structure II			
15:50-16:20	Invited Talk Structure Determination in a new Type of Amorphous Molecular Solids with Extreme Nonlinear Optical Properties	Wolf -C. Pilgrim Philipps-University of Marburg, Germany	IL8
16:20-16:40	Static Structure of Liquid Ag ₂ Se Based on Molecular Dynamics Simulations Using Artificial Neural Network Potential	Akihide Koura Kumamoto University, Japan	O14
16:40-17:00	Semianalytic Formula for Multiphonon Thermal Diffuse Scattering in Solids	Hikaru Kitamura Kyoto University, Japan	O15

17:00-18:35 Free time

18:35- Boarding

18:50- Dinner

LAM-18 Conference

Online Conference Programme

Day 4 - Thursday 8th, September 2022

JST
CEST

16:00-17:00 9:00-10:00	Session R1 Structure and Dynamics of Liquids I		
16:00-16:30 9:00-9:30	Invited Talk Dynamic properties of liquids of interest in nuclear energy production: liquid Li-Pb alloys and molten UO ₂	Luis E. González Universidad de Valladolid, Spain	RIL1
16:30-17:00 9:30-10:00	Committee Member Talk Origin of Positive Sound Dispersion in Simple Liquids and Liquid Alloys	Taras Bryk Institute for Condensed Matter Physics of NASU, Ukraine	RCL1
17:00-17:10 10:00-10:10	Coffee Break		
17:10-18:35 10:10-11:35	Session R2 Structure and Dynamics of Liquids II		
17:10-17:40 10:10-10:40	Committee Member Talk Chemical short-range order in undercooled Cu-Ni melts	Dirk Holland Moritz Institute of Materials Physics in Space, Germany	RCL2
17:40-17:55 10:40-10:55	Corporate Webinar Talk Company Introduction and Gas Atomization Technology	Teppei Ishikawa MAKABE R&D Co.,LTD	RCW0
17:55-18:15 10:55-11:15	The Short-Range Order in Liquid Water	Neta Ellert Ben-Gurion University of the Negev, Israel	RO1
18:15-18:35 11:15-11:35	Impact of sulfur addition on the structure and dynamics of Ni-Nb alloys	Nicolai Lukas Grund Institute of Materials Physics in Space, Germany	RO2
18:35-20:00 11:35-13:00	Meal Break		
20:00-21:10 13:00-14:10	Session R3 Structure and Dynamics of Non-Crystalline Materials I		
20:00-20:30 13:00-13:30	Invited Talk Cluster-plus-glue-atom Model and the Thus-obtained Composition Genes for Metallic Glasses	Chuang Dong Dalian Jiaotong University, China	RIL2

20:30-20:50 13:30-13:50	Composition Optimization Based on Cluster-plus-glue-atom Model for Bulk Metallic Glass $Zr_{55}Cu_{30}Al_{10}Ni_5$	Shuang Zhang Dalian Jiaotong University, China	RO3
20:50-21:10 13:50-14:10	Colorless and high refractive SnO - and Sb_2O_3 -containing borosilicate glasses	Kazuki Mitsui Ehime University, Japan	RO4
21:10-21:20 14:10-14:20	Coffee Break		
21:20-22:30 14:20-15:30	Session R4 Structure and Dynamics of Non-Crystalline Materials II		
21:20-21:50 14:20-14:50	Invited Talk Understanding diffraction patterns of glassy, liquid and amorphous materials via topological analyses	Yohei Onodera Kyoto University, Japan	RIL3
21:50-22:10 14:50-15:10	Local structural investigation of non-crystalline materials at high pressure	Xinguo Hong Center for High Pressure Science and Technology Advanced Research, China	RO5
22:10-22:30 15:10-15:30	The structure of bismuth oxide glasses	Katsuki Hayashi Ehime University, Japan	RO6
22:30-22:40 15:30-15:40	Coffee Break		
22:40-23:40 15:40-16:10	Session R5 Structure and Dynamics of Non-Crystalline Materials III		
22:40-23:00 15:40-16:00	Atomic structure of bulk metallic glasses studied by transmission electron microscopy, synchrotron-radiation X-ray diffraction, scanning tunneling microscopy and ab-initio molecular dynamics simulation	Dmitri V. Louzguine National Institute of Advanced Industrial Science and Technology (AIST), Japan	RO7
23:00-23:20 16:00-16:20	Short range order controlling the atomic dynamics in metallic glasses	Xiao-Dong Wang Zhejiang University, China	RO8
23:20-23:40 16:20-16:40	On the relationship between structural state, mechanical properties and wear resistance of a cu-based bulk metallic glass	Paul Laffont University Grenoble Alpes, SIMaP, France	RO9

Day 5 - Friday 9th, September 2022

JST
CEST

16:00-17:15 9:00-10:15	Plenary Session / Session R6 Phase Transitions and Thermophysical Behaviors I / State of the Art Manufacturing		
16:00-16:40 9:00-9:40	Plenary Talk Behaviors of disordered alloys under high temperature and pressure	Jian-Zhong Jiang Zhejiang University, China	RPL1
16:40-16:55 9:40-9:55	Corporate Webinar Talk Heraeus AMLOY Technologies – The transition from scientific innovation to series production of high-performance application solutions	Hans-Jürgen Wachter Global Head of Heraeus AMLOY, Germany	RCW1
16:55-17:15 9:55-10:15	Large-scale density fluctuations during structural transition in metallic glass forming liquid beyond medium range order	Fan Yang Institute of Materials Physics in Space, Germany	RO10
17:15-17:25 10:15-10:25	Coffee Break		
17:25-18:20 10:25-11:20	Session R7 Poster Short Presentation		
18:20-19:00 11:20-12:00	Poster Session RPS1		
19:00-20:00 12:00-13:00	Meal Break		
20:00-21:00 13:00-14:00	Session R8 Phase Transitions and Thermophysical Behaviors II		
20:00-20:20 13:00-13:20	Structure and dynamics in the no-man's land of phase-change materials	Shuai Wei Aarhus University, Denmark	RO11
20:20-20:40 13:20-13:40	Thermoplastic forming capacity of a ZrCoAl metallic glass for surface patterning	Loïcia Gaudilliere University Grenoble Alpes, SIMaP, France	RO12
20:40-21:00 13:40-14:00	Shape memory effect in metallic glasses	Tianding Xu Zhejiang University, China	RO13

21:00-21:10 Coffee Break

14:00-14:10

21:10-22:10 Session R9

14:10-15:10

Phase Transitions and Thermophysical Behaviors III

- | | | | |
|----------------------------|---|--|-------------|
| 21:10-21:30
14:10-14:30 | Role of Y content on glass-forming ability and soft magnetic properties of Co-Y-B metallic glasses | Shuang Ma
Dalian University of Technology,
China | RO14 |
| 21:30-21:50
14:30-14:50 | Formation of a local structural order in the aluminum melt before crystallization | Vadim B.Vorontsov
Ural State University of Railway transport (USURT), Russia | RO15 |
| 21:50-22:10
14:50-15:10 | Development of metal-metalloid high-entropy bulk metallic glasses with ultrahigh thermal stability and strength | Yanhui Li
Dalian University of Technology,
China | RO16 |

22:10-22:20 Coffee Break

15:10-15:20

22:20-23:00 Session R10

15:20-16:00

Phase Transitions and Dynamic Properties

- | | | | |
|----------------------------|--|---|-------------|
| Cancelled | | | RO17 |
| 22:20-22:40
15:20-15:40 | Change of collective dynamics in supercooled glass-forming aluminium film | Dmitrii Fleita
HSE University, Russia | RO18 |
| 22:40-23:00
15:40-16:00 | Atomic transport properties of $\text{Bi}_{1-x}\text{Zn}_x$ segregating alloys | G. M. Bhuiyan
University of Dhaka, Bangladesh | RO19 |

Day 6 - Monday 12th, September 2022

JST
CEST

16:00-17:00 9:00-10:00	Session R11 Machine Learning I		
16:00-16:30 9:00-9:30	Invited Talk High-Dimensional Neural Network Potentials for Simulations of Complex Systems	Jörg Behler Universität Göttingen, Germany	RIL4
16:30-17:00 9:30-10:00	Invited Talk Structural inheritance and machine learning for materials design: from study of liquid to prediction crystals	Nikolay Chtchelkatchev Vereshchagin Institute for High Pressure Physics, Russia	RIL5
17:00-17:10 10:00-10:10	Coffee Break		
17:10-18:00 10:10-11:00	Session R12 Poster Short Presentation		
18:00-18:40 11:00-11:40	Poster Session RPS2		
18:40-20:00 11:40-13:00	Meal Break		
20:00-20:50 13:00-13:50	Session R13 Machine Learning II		
20:00-20:30 13:00-13:30	Invited Talk Finite-temperature modeling of materials with first-principles accuracy	Michele Ceriotti École Polytechnique Fédérale de Lausanne, Switzerland	RIL6
20:30-20:50 13:30-13:50	Composition Dependence of Melting Temperature of Rb-Na Alloy Using First-principles-based Thermodynamic Integration	Ayu Irie Kumamoto University, Japan	RO20
20:50-21:00 13:50-14:00	Coffee Break		

21:00-22:00 14:00-15:00	Session R14 Thermodynamics and Structure of Non-Crystalline Materials I		
21:00-21:30 14:00-14:30	Invited Talk Response of the Free Energy Landscape to Temperature Modulation and Aging	Takashi Odagaki Kyushu University and Research Institute for Science Education Inc., Japan	RIL7
21:30-22:00 14:30-15:00	Invited Talk New understanding of liquid thermodynamics, viscosity and its lower bounds	Kostya Trachenko Queen Mary University of London, United Kingdom	RIL8
22:00-22:10 15:00-15:10	Coffee Break		
22:10-23:00 15:10-16:00	Session R15 Thermodynamics and Structure of Non-Crystalline Materials II		
22:10-22:40 15:10-15:40	Invited Talk Thermodynamic and Structural Studies on Glass Transitions of Molecular Glasses	Osamu Yamamuro The University of Tokyo, Japan	RIL9
22:40-23:00 15:40-16:00	On the thermodynamics and its connection to structure in the Pt-Pd-Cu-Ni-P bulk metallic glass forming system	Nico Neuber Saarland University, Germany	RO21
23:00-23:10 16:00-16:10	Closing	Organizers	

LAM-18 Conference

Local Poster Programme

Day 1 - Monday 5th, September 2022

15:50-17:50 Poster Session PS1

Day 2 - Tuesday 6th, September 2022

16:40-18:40 Poster Session PS2

P1	Determination of cooperatively rearranging regions in binary glass former	Tomoko Mizuguchi Kyoto Institute of Technology, Japan
P2	Novel Experimental Scheme for Microscopic Study of Johari-Goldstein Process	Makina Saito Tohoku University, Japan
P3	Configurational entropy of an isotropic monatomic glass	A. Ueno Kyoto Institute of Technology, Japan
P4	Anomaly of Linear Thermal Expansion Coefficient induced by rejuvenation treatment	Tomoya Oshikiri Hokkaido University, Japan
P5	The structural analysis of low-density liquid phosphorus using reverse Monte Carlo simulation	Takuya Nishioka Ehime University, Japan
P6	Local Structure of $\text{Ga}_{85.8}\text{In}_{14.2}$ eutectic liquid alloy and its pressure temperature melting line	Andrea Di Cicco University of Camerino, Italy
P7	Development of an Analysis Method for Liquid Electrolyte at a Lithium Electrode Interface using X-ray Total Reflection	Koji Kimura Nagoya Institute of Technology, Japan
P8	Structure of amorphous $\text{Mg}_{85}\text{Zn}_6\text{Y}_9$ alloy as a seed of a long-period stacking ordered structure	Shinya Hosokawa Kumamoto University, Japan
P9	Collective dynamics of liquid sulfur across the polymerization transition temperature probed by inelastic x-ray scattering	Shinya Hosokawa Kumamoto University, Japan
P10	Phonon dynamics of liquid Hg probed by inelastic x-ray scattering	Shinya Hosokawa Kumamoto University, Japan

- | | | |
|------------|---|--|
| P11 | Inelastic x-ray scattering experiments for liquid GeCu_2Te_3 | Masanori Inui
Hiroshima University, Japan |
| P12 | Q-gap behavior of low energy excitations in liquid Sb and liquid Bi observed by inelastic x-ray scattering measurements | Masanori Inui
Hiroshima University, Japan |
| P13 | Phonon dispersion curves in the type-I crystalline and molten clathrate compound $\text{Eu}_8\text{Ga}_{16}\text{Ge}_{30}$ | Masanori Inui
Hiroshima University, Japan |
| P14 | Density response function of valence electrons in liquid Li | Kazuhiro Matsuda
Kumamoto University, Japan |
| P15 | Relationship Between Liquid Dynamics and Potential Energy Landscape | Noel Jakse
Université Grenoble Alpes, CNRS, France |
| P16 | Selecting atomic fingerprints for high-dimensional neural network potentials: adaptive group lasso approach | Johannes Sandberg
Université Grenoble Alpes, CNRS, France |
| P17 | GeO_2 glass structure from neural network potential molecular dynamics –dependence of intermediate-range order on density functional approximation | Kenta Matsutani
Yamagata University, Japan |
| P18 | Optical properties of molten pure copper by density functional theory | Susumu Kato
National Institute of Advanced Industrial Science and Technology (AIST), Japan |

LAM-18 Conference

Online Poster Programme

JST
CEST

Day 5 - Friday 9th, September 2022

17:25-18:20 Session R7
10:25-11:20 Poster Short Presentation

18:20-19:00 Poster Session RPS1
11:20-12:00

Day 6 - Monday 12th, September 2022

17:10-18:00 Session R12
10:10-11:00 Poster Short Presentation

18:00-18:40 Poster Session RPS2
11:00-11:40

RP1	Development and optimization of sulfur-containing novel Ti-based Bulk Metallic Glasses and the correlation between primary crystalline phases, thermal stability and mechanical properties	Lucas Matthias Ruschel Saarland University, Germany	R7 RPS1 RPS2
RP2	Structural analysis of etidronate disodium	Hironori Shimakura Niigata University of Pharmacy and Applied Life Sciences, Japan	R7 RPS1 RPS2
RP3	Topological analysis for α -AgI	Shuta Tahara University of the Ryukyus, Japan	R7 RPS1 RPS2
RP4	Glass transition temperature of nickel based binary alloys and its interparticle dynamics features	Dmitrii Fleita Joint Institute for High Temperatures of the Russian Academy of Sciences, Russia	R7 RPS1 RPS2
RP5	Local density fluctuation realized in Nb-Ni amorphous alloys	Toru Kawamata Tohoku University, Japan	R7 RPS1 RPS2
RP6	Unsupervised topological learning of crystal nucleation in pure metals	Sébastien Becker Université Grenoble-Alpes, France	RPS1 R12 RPS2

P1	Determination of cooperatively rearranging regions in binary glass former	Tomoko Mizuguchi Kyoto Institute of Technology, Japan	R7 RPS1
P2	Novel Experimental Scheme for Microscopic Study of Johari-Goldstein Process	Makina Saito Tohoku University, Japan	R7 RPS1 RPS2
P5	The structural analysis of low-density liquid phosphorus using reverse Monte Carlo simulation	Takuya Nishioka Ehime University, Japan	RPS1 R12 RPS2
P7	Development of an Analysis Method for Liquid Electrolyte at a Lithium Electrode Interface using X-ray Total Reflection	Koji Kimura Nagoya Institute of Technology, Japan	R7 RPS1
P8	Structure of amorphous $Mg_{85}Zn_6Y_9$ alloy as a seed of a long-period stacking ordered structure	Shinya Hosokawa Kumamoto University, Japan	R7 RPS1
P9	Collective dynamics of liquid sulfur across the polymerization transition temperature probed by inelastic x-ray scattering	Shinya Hosokawa Kumamoto University, Japan	R7 RPS1
P10	Phonon dynamics of liquid Hg probed by inelastic x-ray scattering	Shinya Hosokawa Kumamoto University, Japan	R7 RPS1
P11	Inelastic x-ray scattering experiments for liquid $GeCu_2Te_3$	Masanori Inui Hiroshima University, Japan	RPS1 R12 RPS2
P12	Q-gap behavior of low energy excitations in liquid Sb and liquid Bi observed by inelastic x-ray scattering measurements	Masanori Inui Hiroshima University, Japan	RPS1 R12 RPS2
P13	Phonon dispersion curves in the type-I crystalline and molten clathrate compound $Eu_8Ga_{16}Ge_{30}$	Masanori Inui Hiroshima University, Japan	RPS1 R12 RPS2
P14	Density response function of valence electrons in liquid Li	Kazuhiro Matsuda Kumamoto University, Japan	RPS1 R12 RPS2

P15	Relationship Between Liquid Dynamics and Potential Energy Landscape	Noel Jakse Université Grenoble Alpes, CNRS, France	R12 RPS2
P16	Selecting atomic fingerprints for high-dimensional neural network potentials: adaptive group lasso approach	Johannes Sandberg Université Grenoble Alpes, CNRS, France	RPS1 R12 RPS2
P17	GeO ₂ glass structure from neural network potential molecular dynamics –dependence of intermediate-range order on density functional approximation	Kenta Matsutani Yamagata University, Japan	RPS1 R12 RPS2
P18	Optical properties of molten pure copper by density functional theory	Susumu Kato National Institute of Advanced Industrial Science and Technology (AIST), Japan	RPS1 R12 RPS2

LAM-18 Conference

Online Poster Short Presentation Programme

Day 5 - Friday 9th, September 2022

JST
CEST

17:25-18:20 Session R7			
10:25-11:20 Poster Short Presentation			
17:25-17:30 10:25-10:30	Development and optimization of sulfur-containing novel Ti-based Bulk Metallic Glasses and the correlation between primary crystalline phases, thermal stability and mechanical properties	Lucas Matthias Ruschel	RP1 Saarland University, Germany
17:30-17:35 10:30-10:35	Structural analysis of etidronate disodium	Hironori Shimakura	RP2 Niigata University of Pharmacy and Applied Life Sciences, Japan
17:35-17:40 10:35-10:40	Topological analysis for α -AgI	Shuta Tahara	RP3 University of the Ryukyus, Japan
17:40-17:45 10:40-10:45	Glass transition temperature of nickel based binary alloys and its interparticle dynamics features	Dmitrii Fleita	RP4 Joint Institute for High Temperatures of the Russian Academy of Sciences, Russia
17:45-17:50 10:45-10:50	Local density fluctuation realized in Nb-Ni amorphous alloys	Toru Kawamata	RP5 Tohoku University, Japan
17:50-17:55 10:50-10:55	Determination of cooperatively rearranging regions in binary glass former	Tomoko Mizuguchi	P1 Kyoto Institute of Technology, Japan
17:55-18:00 10:55-11:00	Novel Experimental Scheme for Microscopic Study of Johari-Goldstein Process	Makina Saito	P2 Tohoku University, Japan
18:00-18:05 11:00-11:05	Development of an Analysis Method for Liquid Electrolyte at a Lithium Electrode Interface using X-ray Total Reflection	Koji Kimura	P7 Nagoya Institute of Technology, Japan
18:05-18:10 11:05-11:10	Structure of amorphous $Mg_{85}Zn_6Y_9$ alloy as a seed of a long-period stacking ordered structure	Shinya Hosokawa	P8 Kumamoto University, Japan
18:10-18:15 11:10-11:15	Collective dynamics of liquid sulfur across the polymerization transition temperature probed by inelastic x-ray scattering	Shinya Hosokawa	P9 Kumamoto University, Japan

18:15-18:20 Phonon dynamics of liquid Hg probed by inelastic x-ray scattering **Shinya Hosokawa** **P10**
 11:15-11:20 Kumamoto University, Japan

Day 6 - Monday 12th, September 2022

JST
CEST

17:10-18:00 Session R12
10:10-11:00 Poster Short Presentation

17:10-17:15 10:10-10:15	Unsupervised topological learning of crystal nucleation in pure metals	Sébastien Becker Université Grenoble-Alpes, France	RP6
17:15-17:20 10:15-10:20	The structural analysis of low-density liquid phosphorus using reverse Monte Carlo simulation	Takuya Nishioka Ehime University, Japan	P5
17:20-17:25 10:20-10:25	Inelastic x-ray scattering experiments for liquid GeCu ₂ Te ₃	Masanori Inui Hiroshima University, Japan	P11
17:25-17:30 10:25-10:30	Q-gap behavior of low energy excitations in liquid Sb and liquid Bi observed by inelastic x-ray scattering measurements	Masanori Inui Hiroshima University, Japan	P12
17:30-17:35 10:30-10:35	Phonon dispersion curves in the type-I crystalline and molten clathrate compound Eu ₈ Ga ₁₆ Ge ₃₀	Masanori Inui Hiroshima University, Japan	P13
17:35-17:40 10:35-10:40	Density response function of valence electrons in liquid Li	Kazuhiro Matsuda Kumamoto University, Japan	P14
17:40-17:45 10:40-10:45	Relationship Between Liquid Dynamics and Potential Energy Landscape	Noel Jakse Université Grenoble Alpes, CNRS, France	P15
17:45-17:50 10:45-10:50	Selecting atomic fingerprints for high-dimensional neural network potentials: adaptive group lasso approach	Johannes Sandberg Université Grenoble Alpes, CNRS, France	P16
17:50-17:55 10:50-10:55	GeO ₂ glass structure from neural network potential molecular dynamics –dependence of intermediate-range order on density functional approximation	Kenta Matsutani Yamagata University, Japan	P17
17:55-18:00 10:55-11:00	Optical properties of molten pure copper by density functional theory	Susumu Kato National Institute of Advanced Industrial Science and Technology (AIST), Japan	P18