



# ISMCM2023

**Program Book of ISMCM2023**

**The 7th International Soft Matter Conference (ISMCM2023)**

**Date:**

**4th – 8th September 2023**

**Venue:**

**Osaka International Convention Center  
Osaka, Japan**

**Please visit to conference site (<https://ismcm2023.jp>)**



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## Committees

### **International Program Committee**

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#### **Co-chair**

Hajime Tanaka, Japan

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Masayuki Imai, Japan, LOC	Wonho Jhe, Korea
Eugenia Kumacheva, Canada	Guruswamy Kumaraswamy, India
Andrea Liu, USA	Kunimasa Miyazaki, Japan, LOC
Zhongcan Ouyang, China	Wilson Poon, United Kingdom
Michael Rubinstein, USA	Emanuela Zaccarelli, Italy

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#### **Honorary Chair**

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Shigeyuki Komura, Wenzhou Institute, UCAS	Kunimasa Miyazaki, Nagoya University
Yuka Sakuma, Tohoku University	Masako Takasu, Tokyo University of Pharmacy and Life Sciences
Takashi Taniguchi, Kyoto University	Jun Yamamoto, Kyoto University

## **Local Working Group**

### **Local executive unit**

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#### **Members**

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Takeshi Sato, Kyoto University	John Molina, Kyoto University
Yasuya Nakayama, Kyushu University	Kang Kim, Osaka University
Shugo Yasuda, University of Hyogo	Hideyuki Mizuno, University of Tokyo
Shun Imamura, Kyoto University	Taiki Yanagishima, Kyoto University

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Yutaka Sumino, Tokyo University of Science	Takahiro Murashima, Tohoku University

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#### **Members**

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Masako Takasu, Tokyo University of Pharmacy and Life Sciences	Akira Furukawa, University of Tokyo
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Rei Kurita, Tokyo Metropolitan University	Hiroshi Noguchi, University of Tokyo



Hiroshi Orihara, Hokkaido University	Hideki Seto, KEK
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**Members**

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Hiroyuki Yoshida, Osaka University	Yuka Tabe, Waseda University
Jun-ichi Fukuda, Kyushu University	Yoshiaki Uchida, Osaka University
Hirosato Monobe, AIST	Kyohei Takae, University of Tokyo
Yuki Uematsu, Kyushu Institute of Technology	Shunsuke Yabunaka, JAEA

**Secretariat office**

Maya Wazumi, Polaris Secretaries Office Co., Ltd.	Naoko Inagawa, Polaris Secretaries Office Co., Ltd.
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## Hosting Organizations

### Organizer

- Japanese Soft Matter Society

### Co-Organizer

- Japanese Active Matter Society
- Division of Colloid and Surface Chemistry, The Chemical Society of Japan
- Faculty of Engineering, Kyoto University

### Supporting Organizations

- The Physical Society of Japan
- The Chemical Society of Japan
- The Molecular Simulation Society of Japan
- The Japanese Liquid Crystal Society
- The Society of Polymer Science, Japan
- The Society of Rheology, Japan
- The Society of Chemical Engineering, Japan
- The Society of Powder Technology, Japan
- International Union of Pure and Applied Physics, IUPAP

### Sponsors

- Osaka Convention & Tourism Bureau
- Toshiaki Ogasawara Memorial Foundation
- The Kajima Foundation
- The Murata Science Foundation
- The Kyoto University Foundation
- Nippon Sheet Glass Foundation for Materials Science and Engineering
- AGC
- Daicel Corporation
- JSOL Corporation
- Mitsubishi Chemical Group
- Toray Industries, Inc.

### Exhibitors

- JSOL Corporation
- Okayama Visitors & Convention Association
- Xenocs SAS/ SANYO TRADING CO., LTD.

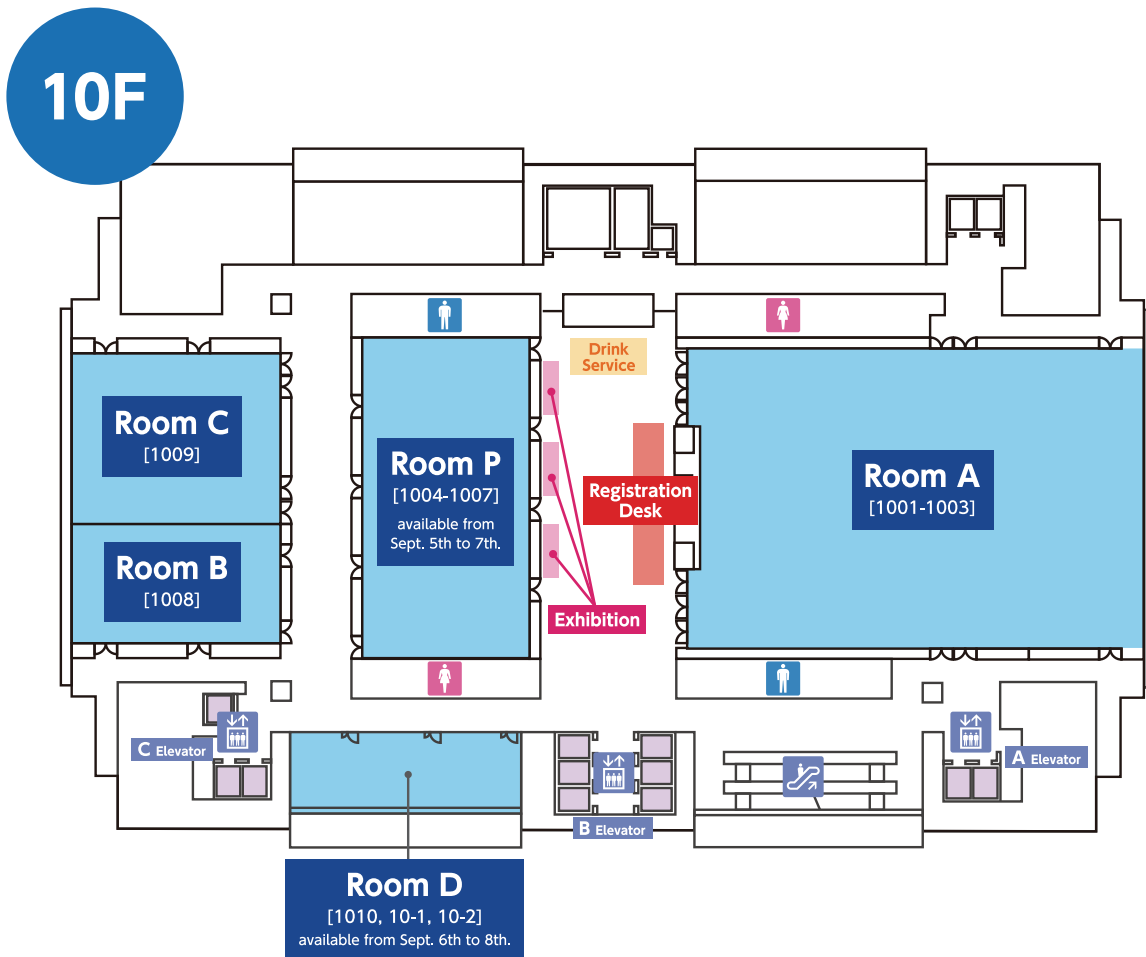
## Program at a Glance

Time	Sep. 4 (Mon)	Sep. 5 (Tue)	Sep. 6 (Wed)	Sep. 7 (Thu)	Sep. 8 (Fri)
9:00	Registration	Registration	Registration	Registration	Registration
10:00		<b>Plenary 3: Dijkstra</b> 9:30-10:20	<b>Plenary 4: Gong</b> 9:30-10:20	<b>Plenary 5: Dogic</b> 9:30-10:20	<b>Plenary 7: Sastry</b> 9:30-10:20
	<b>Opening</b> 10:30-10:40	Coffee Break	Coffee Break	Coffee Break	Coffee Break
11:00	<b>Plenary 1: Marchetti</b> 10:40-11:30	<b>Parallel session 2a</b> 10:50-11:50	<b>Parallel session 3a</b> 10:50-11:50	<b>Parallel session 4a</b> 10:50-11:50	<b>Parallel session 5a</b> 10:50-11:50
12:00	Lunch 11:30-13:20	Lunch 11:50-13:00	Lunch 11:50-13:00	Lunch 11:50-13:00	Lunch 11:50-13:10
13:00	<b>Parallel session 1a</b> 13:20-14:40	<b>Poster Session 1</b> 13:00-15:00	<b>Poster Session 2</b> 13:00-15:00	<b>Poster Session 3</b> 13:00-15:00	<b>Plenary 8: Watanabe</b> 13:10-14:00
14:00					<b>Parallel session 5b</b> 14:10-15:10
	Coffee Break				
15:00	<b>Plenary 2: Butt</b> 15:00-15:50			<b>Plenary 6: Vitelli</b> 15:10-16:00	<b>Closing</b> 15:20-15:40
16:00	<b>Parallel session 1b (with Keynote)</b> 16:00-17:30	<b>Parallel session 2b (with Keynote)</b> 15:10-17:20	<b>Parallel session 3b (with Keynote)</b> 15:10-17:20	<b>Parallel session 4b (with Keynote)</b> 16:10-17:20	
17:30					

# Floor Map

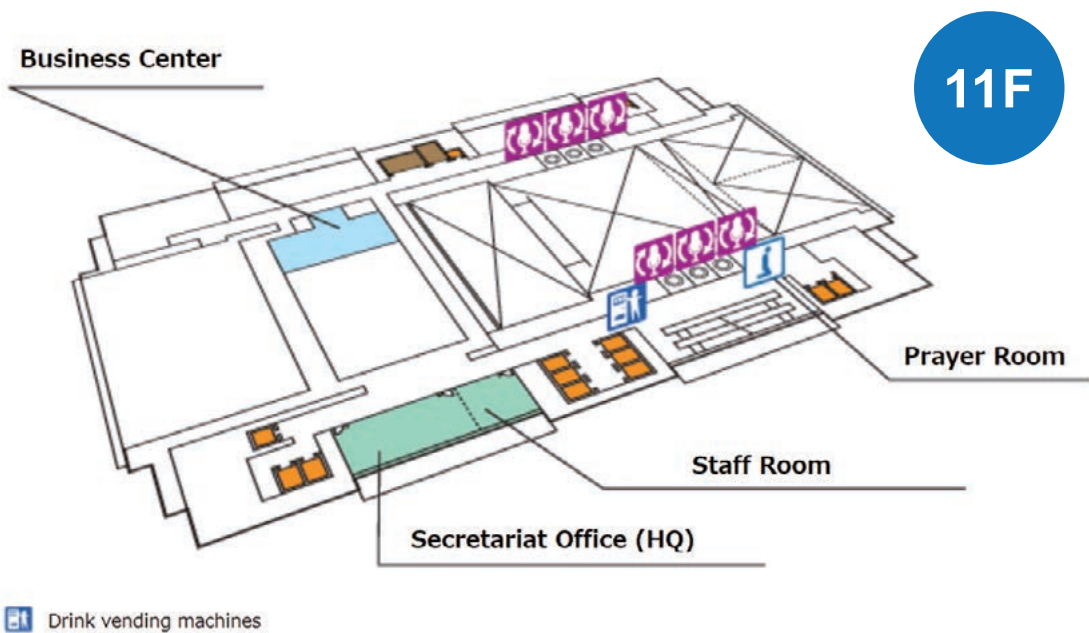
## Conference Venue

Osaka International Convention Center (Grand Cube Osaka)

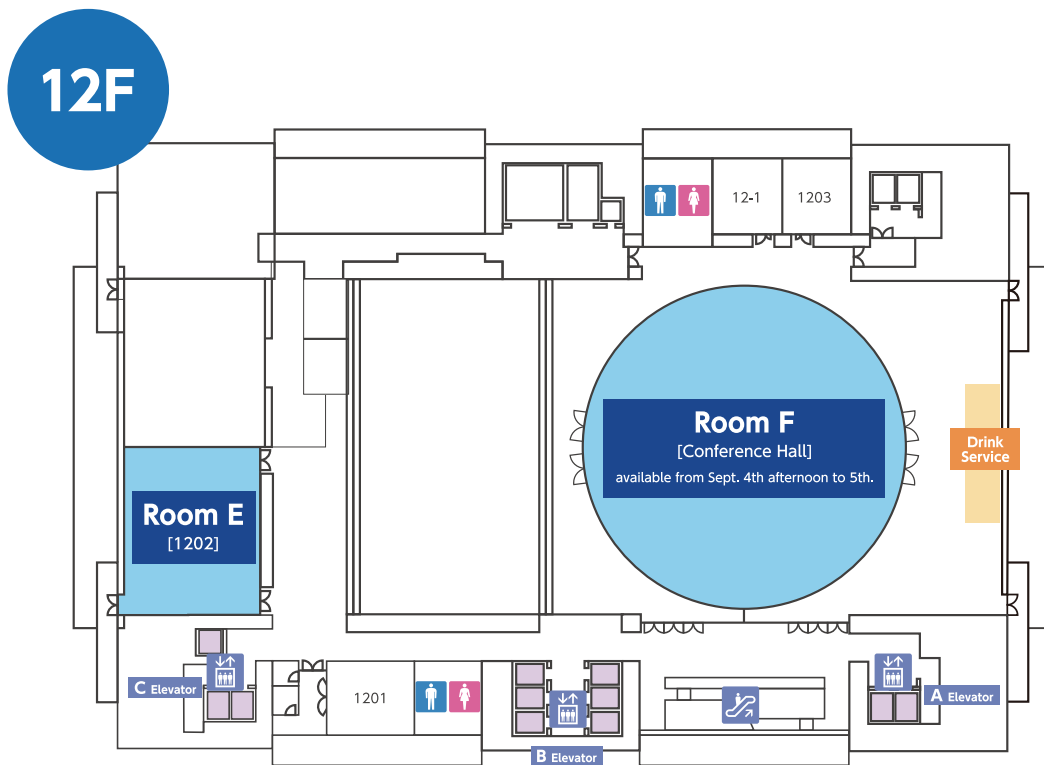


- ISMC2023 Registration Desk
- Session Rooms (A, B, C, D)
  - \*Room D is available from September 6th.
- Poster Room (Room P)
  - \*Room P is available from September 5th to 7th.
- Coffee Breaks (Drink Service)
- Exhibition





- Business Center  
Opening hours 8:30-19:00, photocopier, facsimile (receiving & sending)
- Prayer Room  
Please call the extension phone in front of the room before using.



- Session Rooms (E, F)  
\*Room F and Drink service are available on September 4<sup>th</sup> and 5<sup>th</sup>.

## Lunch and Coffee

A conference name badge is required to enter the lunch venue.

### Lunch venue

NCB Kaikan (NCB 会館), Nakanoshima Center Building

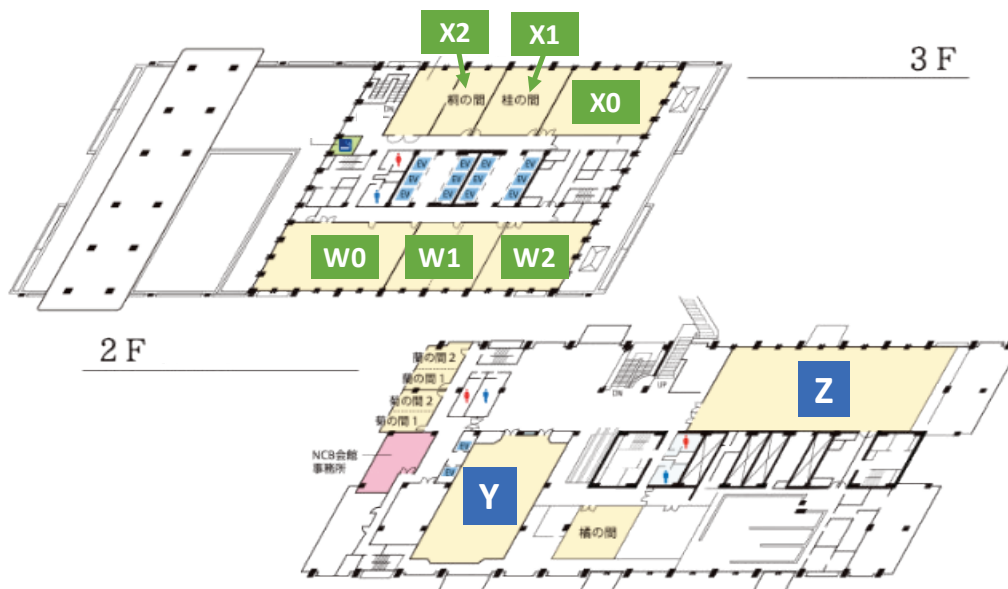


### Lunch time

Sep. 4, Monday	[Group 1] 11:30 – 12:25 / [Group 2] 12:25 – 13:20
Sep. 5, Tuesday	[All] 11:50 – 13:00
Sep. 6, Wednesday	[All] 11:50 – 13:00
Sep. 7, Thursday	[All] 11:50 – 13:00
Sep. 8, Friday	[All] 11:50 – 13:10

## Lunch

Eating and drinking in the hallway are prohibited.



## Coffee Breaks/ Drink Service

Drink services are available as follows.

Day	Time	Center Foyer, 10F	Foyer, 12F
Sep. 4, Monday	14:40-15:00	○	○
Sep. 5, Tuesday	10:20-10:50	○	○
	13:00-15:00	○	—
Sep. 6, Wednesday	10:20-10:50	○	—
	13:00-15:00	○	—
Sep. 7, Thursday	10:20-10:50	○	—
	13:00-15:00	○	—
Sep. 8, Friday	10:20-10:50	○	—

## Social Events

### Opening

Date: 10:30 – 10:40, Monday, 4<sup>th</sup> September

Venue: Room A (10F)

### Group Photo

Date: 10:20, Tuesday, 5<sup>th</sup> September

Venue: Room A (10F)

### Tour (optional) **Prior reservation is required.**

*Nakanoshima Museum of Art Night Reception & Exhibition Room Tour*

Date: 18:30 – 21:30, Wednesday, 6<sup>th</sup> September

Venue: Nakanoshima Museum of Art

Fee: 2,500JPY

Capacity: 150 people

### Closing

Date: 15:20 – 15:40, Friday, 8<sup>th</sup> September

Venue: Room A (10F)

## General Information

### Registration Desk

Hours of Operation:

Sep. 4, Monday	09:00 – 17:00
Sep. 5, Tuesday	09:00 – 17:00
Sep. 6, Wednesday	09:00 – 17:00
Sep. 7, Thursday	09:00 – 17:00
Sep. 8, Friday	09:00 – 14:20

### Cloak Room

No cloakroom is available. Please note it in advance. There are coin lockers on the 1st, 3rd, 5th and 10th floors.



### **Internet/ Wi-Fi Area**

Public Area Free Wi-Fi is available.

SSID : FREE-OICC / Password : grandcube

### **Lost and Found**

If you lose or find an item, please stop by the registration desk.

### **Messages**

A message board will be set up beside the Registration Desk.

### **First Aid**

If you require medical assistance during the Conference, please contact the registration desk or any staff member immediately.

### **AED (Automated External Defibrillator)**

Next to the B elevator hall on the 3rd, 5th, and 12th floors

### **Infectious disease prevention**

Refrain from participating if you have symptoms like fever (above 37.5°C), coughing, and sore throat.

### **Emergencies**

If you or any other delegate is unwell, or if an accident or any other emergency occurs while at the conference, please contact the registration desk or any staff member.

### **When an Earthquake Strikes**

Take action to protect yourself and wait until the shaking stops.

Keep low, cover your head and body, and stay put until the tremors stop.

Then follow the staff's instructions.

### **Smoking**

All indoor areas are non-smoking. Smoking is only permitted in the outdoor entrance hall "Plaza" on the 1st floor.

# Presentation Guideline

## Oral presentations

1. Speakers are asked to prepare their presentations to match the allocated times, which will be rigidly enforced. Please note that speakers will be timed from the moment they arrive in front of the podium and begin setting up their presentation (i.e., the preparation time is counted towards the time allotment).

Allotted times are as follows:

- Plenary Talk: 50 minutes  
(approximately 40 min presentation + 10 min discussion)
  - Keynote Talk: 30 minutes  
(approximately 25 min presentation + 5 min discussion)
  - Contributed Talk: 20 minutes  
(approximately 15 min presentation + 5 min discussion)
2. We request that all presenters self-test the connection/presentation setup during the break prior to their session.
  3. Each meeting room will be equipped with the following equipment:
    - LCD Projector & Screen (aspect ratio 16:9)
    - Laser pointer
    - Notebook PC with Windows OS
    - HDMI and VGA cables
    - Microphone
  4. We recommend that speakers bring their own laptops (with HDMI/VGA output capabilities) to display their presentation materials.
  5. Presenters are responsible for ensuring they can connect to the visual system through HDMI/VGA (please bring any required adapters/dongles).
  6. Speakers who want to use the Notebook PC installed in the meeting room should bring a USB memory stick (Type A or C) with their PowerPoint or PDF presentation files, and load them onto the PC during the break prior to their session.
  7. Please note that the presentation system will only transmit video. No audio playback will be possible.

## **Poster presentations**

1. Posters should be displayed in the Poster Session rooms (Room P) during the three dedicated poster sessions (Tuesday, Wednesday, and Thursday), as scheduled in the program.
2. Please note that during the poster sessions, authors are expected to stay close to their boards in order to answer questions and facilitate discussions on their work.
3. Please display your poster on the board that matches your poster number, as indicated in the program, before the start of your poster session.
4. The poster boards are large enough to fit A0-sized posters in portrait orientation (1.2m height x 0.9m width). If your poster does not fit within these dimensions, we cannot guarantee that it will be displayed. Appropriate materials to mount the posters on the boards will be supplied to all presenters.

You should mount your poster on the day of your assigned poster session, between 10:20 and 13:00. You should remove your poster by 17:00 on the same day. Any poster not removed by the indicated time will be automatically recycled.

## Plenary and Keynote Speakers

### Plenary Speakers

- **Hans-Jürgen Butt**, Max-Planck-Institut für Polymerforschung, Germany
- **Marjolein Dijkstra**, University of Utrecht, Netherlands
- **Zvonimir Dogic**, UCSB, USA
- **Jian Ping Gong**, Hokkaido University, Japan
- **Cristina Marchetti**, UCSB, USA
- **Srikanth Sastry**, JNCASR, India
- **Vincenzo Vitelli**, University of Chicago, USA
- **Hiroshi Watanabe**, Kyoto University, Japan & Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, China

### Keynote Speakers

- **Dirk Aarts**, University of Oxford, UK
- **Daniel Bonn**, University of Amsterdam, Netherlands
- **Olivier Dauchot**, ESPCI, France
- **Masao Doi**, University of Chinese Academy of Science, China
- **Jens Elgeti**, Forschungszentrum Jülich, Germany
- **Jun-ichi Fukuda**, Kyushu University, Japan
- **Rajesh Ganapathy**, JNCASR, India
- **Yilong Han**, HKUST, Hong-Kong
- **Jessie S. Jeon**, KAIST, Korea
- **Amelia Liu**, Monash University, Australia
- **Ran Ni**, Nanyang Technological University, Singapore
- **John Russo**, Sapienza University of Rome, Italy
- **Chantal Valeriani**, University of Madrid, Spain
- **Yujie Wang**, Shanghai Jiao Tong University, China
- **Matthieu Wyart**, EPFL, Switzerland
- **Limei Xu**, Peking University, China
- **Ning Xu**, USTC, China
- **Miho Yanagisawa**, University of Tokyo, Japan
- **Hepeng Zhang**, Shanghai Jiao Tong University, China



**Programs**  
**as of 08/28/2023**

**TOPICS**

Topic 1:	Colloidal Soft Matter and Emulsions
Topic 2:	Polymeric Soft Matter
Topic 3:	Liquid Crystal and Anisotropic Soft Matter
Topic 4:	Glasses, Arrested Soft Matter, Jamming, and Granular Materials
Topic 5:	Self-assembled Soft Matter
Topic 6:	Biological Matter, Active Soft Matter, and Living Soft Matter
Topic 7:	Rheology and Non-equilibrium phenomena in Soft Matter
Topic 8:	Others, including Interfacial Soft Matter, Metamaterials, and Industrial Soft Matter

# DAY 1: September 4 (Mon)

	Room A (10F)	Room B (10F)	Room C (10F)	Room E (12F)	Room F (12F)
9:00			Registration (10F Lobby)		
10:30			Opening Remark: Ryoichi Yamamoto (Room A)		
10:40	Plenary Talk 1 (Chair: Hartmut Löwen) (Room A) Cristina Marchetti, "Topological defects in active and living matter"				
11:30			Lunch (Hotel INCB, 2F and 3F)		
13:20	<b>[1a-A] Topics 3, 6</b> (Chairperson: Gladys Massiera)	<b>[1a-B] Topics 3</b> (Chairperson: Alexey Eremin)	<b>[1a-C] Topics 6, 7, 8</b> (Chairperson: Matthew Turner)	<b>[1a-E] Topics 1</b> (Chairperson: Yasuyuki Kimura)	<b>[1a-F] Topics 2</b> (Chairperson: Wonho Jhe)
13:20	*Mitsusuke Tarama, Sayaka Sekine, Tatsuo Shibata, Shigeo Hayashi. "Microphase separation of actin cytoskeleton during tubulogenesis"	*Ben Beddoes, Eleni Perivolari, Malgosia Kaczmarek, Vasilis Apostolopoulos, Vassili A. Fedotov. "Metamaterial enabled all-optical switching of nematic liquid crystals at terahertz frequencies"	Benjamin Sorkin, *Haim Diamant, Gil Ariel, Avraham Be'el. "Detecting and characterizing transitions in active matter using entropy"	*Hiroyuki Matsubara, Kazuki Shishida. "Demulsification of silica stabilized Pickering emulsions using surface freezing transition at the oil-water interface"	*Fanlong Meng, Mohamad O. Saed, Eugene M. Terentjev. "Modelling rheological properties of vitrimers"
13:40	*Ioana Ilie, Bernadette Mayer, Simone Ruggieri. "Physical mechanisms of protofilament formation"	*Yoshiaki Uchida, Koki Sasaki, Norikazu Nishiwama. "Nanosheet formation in Hyperswollen Lamellar Phases"	*Paolo Maggarelli. "From active Sliard engines to information-controlled active systems"	*Diana Cholokova, Slava Tcholakova, Nikolai Denkov. "Spontaneous shaping, bursting and swimming observed with active emulsion drops undergoing phase transitions"	*Carlos G. Lopez, Atsushi Matsumoto, Takaichi Watanabe. "Solution rheology of poly(ionic liquids)"
14:00	*Annelie Leforester, Kahina Vertchik, Luca Barberi, Sylvain Bony, Martin Lenz. "Electrostatic zipper tunes the DNA double helix conformation in toroidal condensates"	Akhshay Bhadwal, Joseph Cousins, Nigel Mottram, Stephen Wilson, Brian Duffy, Jan Saigo, *Carl Brown. "Viscous control of free surface morphology"	*Gunnar Pruessner, Rosalba Garcia-Millan. "Field theories for active particle systems and their entropy production"	*Youjie Sheng, Shanwen Zhang, Hanling Zhang, Xixi Liu, Xinli Fan. "Investigation on highly stable foam strengthened by nanoparticles and multiple surfactants and its application in fighting liquid fuel fire"	*Sophie van Lange, Diane te Brake, Joris Sprakel, Jasper van der Gucht. "Moderated ionic bonding for water-free polyelectrolyte complexes"
14:20	*Maria Tessel van Rossem, Sandra Wilks, Malgosia Kaczmarek, Patrick Secor, Giampaolo D'Alessandro. "Modelling of charge effects in liquid crystalline biofilms for analysis of antibiotic tolerance"	*Benjamin Abecassis. "Semiconducting colloidal nanoplatelets as soft matter"	*Dipanjan Mandal, David Ouellet. "Nucleation in the presence of static and dynamic impurities in two dimensional Ising lattice-gas"	*Edward Van Keuren, Eleni Hughes, Yuni Chung, Sophia Taylor, Mauro Mugnai, Peter Olmsted. "Liquid-core polymer nanocapsules synthesized using flash nanoprecipitation"	*Nobuo C. Shirai, Naoyuki Sakumichi. "Microscopic origin of negative energetic elasticity in polymer gels: effective intra-chain repulsive interaction"
14:40			Coffee break (10F Lobby)		
15:00	Plenary Talk 2 (Chair: Damien Baig) (Room A) Hans-Jürgen Butt, "Spontaneous charging of hydrophobic surfaces by sliding drops"				
15:50			Break		
16:00	<b>[1b-A] Topics 6</b> (Chairperson: Holger Stark)	<b>[1b-B] Topics 4</b> (Chairperson: Simon James Haward)	<b>[1b-C] Topics 6</b> (Chairperson: Klemen Bohinc)	<b>[1b-E] Topics 1, 4, 8</b> (Chairperson: Binyu Zhao)	<b>[1b-F] Topics 4</b> (Chairperson: Paddy Royall)
16:10	(This session starts at 16:10) Keita Saito, Ryunosuke Kawano, Eumiaki Kobayashi, Yasutaka Iwashita, *Yasuyuki Kimura. "Dynamics of self-propelled Janus particles in complex fluids"	Keynote Speaker: Wujie Wang, "Experimental study of the Edwards ensemble of granular materials"	Keynote Speaker: Miho Yamagisawa, "Cell-size confinements alter phase transitions of biopolymer solutions: Nanostructural transition, sol-gel transition, and phase separation"	Keynote Speaker: Daniel Bonn, "The beauty of (hydrodynamic) singularities in simple and complex fluids"	Keynote Speaker: Mathieu Wyart, "On the nature of the glass transition"
16:30	*Hisayama, Masahiro J., Yamamoto, Yuiiro Furuta, Takuro Shimaya, Kazumasa A. Takeuchi. "Glassy dynamics in active matter"	*Dominik Krengel, Jian Chen, Mamoru Kikumoto. "Biaxial compression of angular particles"	*Karina Anna Kwapiszewska, Alicja Zgorzelska, Sakshi Sareen, Robert Hohst. "Role of cytoplasmic nanorheology in cellular stress and death"	*Jean-Francois Louf, Shankar Kharal. "Unidirectional freezing of polymer solution droplets"	*Cecilia Herrero, Camille Scalliet, Mark D. Ediger, Ludovic Berthier. "Two-step devitrification of ultra-stable glasses"
16:50	*Mark A. Miller, David Evans, José Martín-Beca, Chantal Valeriani. "Re-entrant Percolation in Active Brownian Colloids"	*Joel Marthelot, Ignacio Andrade Silva, Julien Fongnkin, Olivier Pouliquen. "Cohesion of flexible frictional fiber aggregates"	Miriam Jory, Dario Donnarumma, Christophe Blanc, Aurélie Fort, Isabelle Vachier, Laura Casanellas, Arnaud Bourdill. *Gladys Massiera. "Microrheology of mucus measured on lung tissue culture and on collected samples"	*Fabio Leonzi, Fausto Martelli, Patrick Royall, Hajime Tamaka, John Russo. "Ultra-stable glass-forming ability: from simple liquids to water"	
17:10	*Claudia Conti. "Artificial Cells: from Soft Matter to Cell-like Behaviours"	*Galen Grosjean, Scott Waitukaitis. "Contact electrification in granular media: acoustic levitation experiments and mosaic models"	*Alessandro A Rebana, Xufeng Xu, Robert W. Style, Alessandro Ianniro, Francesco Stellacci, Eric R Dufresne. "Prediction of Protein Phase Diagrams based on Measurements of Weak Interactions Under Dilute Conditions"	*Thomas Voigtmann, Luis Fernando Elizondo-Aguilera, Tommaso Rizzo. "Scaling laws for Aging in Glasses"	
17:30					

# DAY 2: September 5 (Tue)

	Room A (10F)	Room B (10F)	Room C (10F)	Room E (12F)	Room F (12F)
9:30	Plenary Talk 3 (Chair: Seth Fraden) (Room A) <b>Marjolein Dijkstra</b> , "From twist-bend and splay-bend nematic phases to baby skyrmions and polar blue phases in systems of colloidal bananas"				
10:20	Coffee break (10F Lobby)				
10:50	<b>[2a-A] Topics 6</b> (Chairperson: <b>Mitsusuke Tarama</b> ) *Yuka Sakumai, "Effect of polymer chains grafted to the lipid GUV on the membrane fluidity"	<b>[2a-B] Topics 3</b> (Chairperson: <b>Benjamin A Becassis</b> ) *Hirosugu Kikuchi, Hiroyuki Matsukizono, Koki Iwamatsu, Sota Endo, Shizuka Anai, Yasushi Okumura, "Ferroelectric liquid crystals with spontaneous polarization in the direction of the director"	<b>[2a-C] Topics 6, 7</b> (Chairperson: <b>Simon K. Schwyder</b> ) Vivien Willems, Alexandre Baron, Gianna Wolfisberg, Eric Dufresne, Laura Alvarez, "Phase separation-dependent active motion of Janus vesicles"	<b>[2a-E] Topics 1</b> (Chairperson: <b>Youjie Sheng</b> ) *Jacopo Vialetto, Shivaprasaksh N. Ramakrishna, Fabrizio Camerlin, Emanuela Zaccarelli, Lucio Isa, "From microgels to hard-core soft-shell particles at fluid interfaces: in situ imaging of their three-dimensional shape by atomic force microscopy"	<b>[2a-F] Topics 2</b> (Chairperson: <b>Hideki Seto</b> ) *Andrea Radulescu, Maria-Maddalena Schiavone, Hiroki Iwase, Hiroshi Arima-Osonoi, Yue Zhao, "Understanding the morphology of the proton-exchange membranes on a broad length scale between Å and hundreds of nanometers by simultaneous contrast variation small- and wide-angle neutron scattering"
11:10	William Trewby, *Kislon Voitchovski, "Local nano-rheology of fluid bio-membranes at interfaces"	*Alexey Eremin, Alexander Jarosik, Evangelia Zavou, Hajnalka Nádasi, "Polarisation-driven phenomena in mechanics of 3D ferroelectric fluids"	*Damien Bajil, "Synthetic self-assembly with life-like properties"	*Dhillip Kumar Satapathy, Merin Jose, "Self-assembly of soft colloids at interfaces: Structure and dynamics"	*Andrea Giuntoli, Roshan Yunus, Aleksander Guzik, Utku Gurel, Marc Stuart, Patrizio Raffa, Daniele Parisi, "Ultra-soft charged micelles with long-range electrostatic interactions"
11:30	*Miguel Paez-Perez, Nicholas J Brooks, Marina K Kulmova, "Molecular rotors as tools to explore the mechanical behaviour of lipid membranes under stress"	*Mark Richard Wilson, Toby R. C. Thompson, "The structure of the ferroelectric nematic phase: insights from molecular dynamics simulations"	*Shugo Yasuda, "Kinetic transport simulation of the aggregation and traveling wave of run-and-tumble chemotactic bacteria"	*Judith E Houston, Andrea Scotti, "Method to simultaneously probe the bulk modulus and structure of soft compressible objects using small-angle neutron scattering with contrast variation"	*Caitlyn M. Wolf, Youngju Kim, Ryan P. Murphy, Pushkar S. Sathe, Sarah M. Robinson, M. Cyrus Daughterty, Michael G. Huber, David L. Jacobson, Jacob M. LaVanna, Nikolai N. Klimov, Paul A. Kienzie, Peter N. Batsky, Daniel S. Hussen, Katie M. Weigandt, "Heterogeneity and Hierarchical Structure in Polymer Systems using Small-Angle Neutron Scattering and Neutron Dark Field Imaging"
11:50	Lunch (Hotel NCB, 2F and 3F)				
13:00	Poster Session 1 (Room P) Topics: <i>Polymeric Soft Matter Liquid Crystal and Anisotropic Soft Matter Others, including Interfacial Soft-Matter, Metamaterials, and Industrial Soft-Matter</i>				
15:00	Break				
15:10	<b>[2b-A] Topics 6</b> (Chairperson: <b>Paolo Malignetti</b> ) Keynote Speaker: Jens Elgeti, "Active Matter driven by Growth"	<b>[2b-B] Topics 3</b> (Chairperson: <b>Mark Richard Wilson</b> ) Keynote Speaker: Jun-ichi Fukuda, "Numerical study of the structural and optical properties of cholesteric blue phase liquid crystal"	<b>[2b-C] Topics 1, 4, 5</b> (Chairperson: <b>Mark A. Miller</b> ) Keynote Speaker: Rakesh Ganapathy, "Melting and shear-melting on non-Euclidean surfaces"	<b>[2b-E] Topics 1, 4, 6, 7</b> (Chairperson: <b>Bruno Andreotti</b> ) Keynote Speaker: Dirk Aarts, " $g(r) \rightarrow \chi(r)$ "	<b>[2b-F] Topics 2, 4</b> (Chairperson: <b>Fanlong Meng</b> ) Keynote Speaker: Miaoao Doi, "Elastic Response of Suspensions of Thin Rigid Particles in Glassy State"
15:40	*Matthew Turner, Harvey Devereux, "Collective motion and environmental path entropy"	*Matevž Marinič, Jaka Piližar, Sharmistha Ghosh, Srikanth Turiapati, Mandiraiva V. S. Rao, Milha Skarabot, Alenka Mertelj, Andrej Petelin, Andriy Nych, Anja Pusovnik, Igor Muševič, Milha Ravnik, "Numerical Modelling of Skyrmions in Blue Phase III"	*Ping Huang, Thomas Schoenenberger, Marco Cantoni, Lukas Heinen, Arnaud Magrez, Achim Rosch, Fabrizio Carbone, Henrik M. Rønnow, "Melting of a skyrmion lattice to a skyrmion liquid via a hexatic phase"	*Michael Remnick, Abhinav Naga, Halim Kusumaatmaja, "Viscous Dissipation of Droplets Moving on Liquid Infused Surfaces"	*Alfons van Blaaderen, Thijs Besseling, Berend van der Meer, Bing Liu, Arnout Limhof, Laura Ellison, "An Equilibrium Rotator Glass for Long-Range Repulsive Colloidal Rods"
16:00	*Sejun Goh, Roland G. Winkler, Gerhard Gompper, "Noisy pursuit by cognitive self-steering active particles"	*Satoshi Aya, Jidan Yang, Yu Zhou, "Topology of Polar Liquids in Confined Space"	*Jun Nozawa, Koya Shibata, Kozo Fujiwara, "Heteroepitaxial fabrication of binary colloidal crystals by a balance of interparticle interaction and lattice spacing"	*Wonho Jhe, Chungman Kim, Jaewon Shim, Manhee Lee, Sangmin An, David Weitz, "Tip-based Micro and Nano Rheology"	*Zhiqiang Xiong, Wei Yu, "A nonlinear constitutive model for entangled symmetric dendrimers"
16:20	Jintao Li, *Simon K. Schwyder, Matthew S. Turner, Ryoichi Yamamoto, "Cell colony dynamics and competition in a hybrid mechanochemical model"	*Mykola Tasinkevych, Rodrigo Coelho, Margarida Telo da Gama, Hangqing Zhao, Ivan Smalyukh, "Sculpting liquid crystal skyrmions with external flows"	*Peng Tan, "Fast crystallization of colloidal glass"	*Jens Harting, Marleen Wouters, Othman Aouane, Lei Yang, Qinguang Xie, Marcello Sega, "Capillary interactions between soft capsules, hard particles and droplets at thin fluid films"	Daide Michieletto, *Simon Weir, "Topologically Active Polymers"
16:40	*Holger Stark, Arghavan Partovifard, "Controlling active turbulence by activity patterning"	*Yohei Zushi, Kazumasa A. Takeuchi, "Scaling and symmetry of reconnecting nematic disclinations"	Johannes Menath, Jack Eatson, *Martin Buzza, Nicolas Vogel, "Defined Core-Shell Particles as the Key to Complex Interfacial Self-Assembly"	Gerardo da Cunha, Nataliya Shcherbakova, Vincent Gerbaud, Patricio Bacchi, "Non-electrolyte diffusiophoresis: transient simulations toward fully developed and equilibrium states"	*Danyang Chen, Liejia Sapir, Michael Rubinstein, "Collective and Pairwise Entanglements in Polymer Networks"
17:00	*Alexandre Morin, Samadarshi Maity, "Spontaneous demixing in binary active liquids"	*Yohei Takae, Kota Mitsumoto, "Diffusionless relaxation of half-skyrmion liquid, hexatic, and crystalline states in a chiral molecular crystal"	*Peter Keim, Lukas Siedentopf, "Melting of 2D Crystals of Squares"	*John Jairo Molina, Kenji Ohawa, Takashi Tamiguchi, "Stokesian Processes: Physics Informed Bayesian Machine Learning for Soft Matter Flows"	*Takahiro Murashima, Katsumi Hagita, Toshihiro Kawakatsu, "Stress Overshoots of Ring/Linear Blends under Elongational Flows: Coarse-Grained Molecular Dynamics Simulation"
17:20					

# DAY 3: September 6 (Wed)

	Room A (10F)	Room B (10F)	Room C (10F)	Room D (10F)	Room E (12F)
9:30	Plenary Talk 4 (Chair: Toshihiro Kawakatsu) (Room A) <b>Jian Ping Gong, "Bioinspired Soft Matter Design"</b>				
10:20	Coffee break (10F Lobby)				
10:50	<b>[3a-A] Topics 6, 7 (Chairperson: Laura Alvarez)</b> Ricardo Reyes Garza, Nikos Kyriakopoulos, Zoran M. Cenev, Carlo Rigoni, *Jaakko V. I. Timonen, "Magnetic Quincke Rollers with Tunable Single Particle Dynamics and Collective States"	<b>[3a-B] Topics 5 (Chairperson: Dilip Kumar Satopathy)</b> *Da Wang, Ernest van der Wee, Tonnisshtha Dasgupta, Michiel Hermes, Thomas Altantzi, Daniele Zanaga, Yaoting Wu, Daniel Arenas Estéban, Ainkya Kadu, Ana Sánchez Iglesias, Luis Liz-Marzán, Christopher Murray, Sara Bals, Marijolein Dijkstra, Alfons van Blaaderen, "Colloids, Self-Assembly and 3D Electron Microscopy: Structuring and Understanding Hierarchical Matter" *Seth Fraden, Wei-Shao Wei, Michael Hagan, Anthony Tribiuno, Christian Sigi, Hendrik Dietz, "Hierarchical assembly is more robust than egalitarian assembly in synthetic capsids" *Shunto Arai, "Role of flexible side chains in 2D crystallization of rigid frameworks"	<b>[3a-C] Topics 6 (Chairperson: Amélie Lefrestier)</b> *Hideki Seto, "Quasi-Elastic Neutron Scattering Studies on Hydration Water" *Andrew Jackson, Adrian Sanchez-Fernandez, Medina Basic, Jimmy Xiang, Sylvain Prevost, Cedric Dicko, "Hydration in Deep Eutectic Solvents and Protein Conformation" *Klemen Bohinc, "Charge Distribution within Lipid Head Groups and Nanoparticles on Electric Double Layer Properties"	<b>[3a-D] Topics 8 (Chairperson: Ko Okumura)</b> Yixuan Du, Yujun Lin, *Binyu Zhao, Günter K. Auerhammer, "Droplet Drying on Stretched Soft Substrates"	<b>[3a-E] Topics 1 (Chairperson: Junpei Yamamaka)</b> Sota Inoue, Yasuyuki Kimura, *Yuki Uematsu, "Ostwald ripening of aqueous microbubble solutions"
11:10	<b>[3a-A] Topics 6, 7 (Chairperson: Laura Alvarez)</b> Kumi Kuhara, Mayuko Kuga, *Kazuaki Furukawa, "Dynamics of Arrayed Rotational Bits Prepared by Self-propelled Ion Gel"	<b>[3a-B] Topics 5 (Chairperson: Dilip Kumar Satopathy)</b> *Seth Fraden, Wei-Shao Wei, Michael Hagan, Anthony Tribiuno, Christian Sigi, Hendrik Dietz, "Hierarchical assembly is more robust than egalitarian assembly in synthetic capsids" *Shunto Arai, "Role of flexible side chains in 2D crystallization of rigid frameworks"	<b>[3a-C] Topics 6 (Chairperson: Amélie Lefrestier)</b> *Hideki Seto, "Quasi-Elastic Neutron Scattering Studies on Hydration Water" *Andrew Jackson, Adrian Sanchez-Fernandez, Medina Basic, Jimmy Xiang, Sylvain Prevost, Cedric Dicko, "Hydration in Deep Eutectic Solvents and Protein Conformation" *Klemen Bohinc, "Charge Distribution within Lipid Head Groups and Nanoparticles on Electric Double Layer Properties"	<b>[3a-D] Topics 8 (Chairperson: Ko Okumura)</b> Yixuan Du, Yujun Lin, *Binyu Zhao, Günter K. Auerhammer, "Droplet Drying on Stretched Soft Substrates"	<b>[3a-E] Topics 1 (Chairperson: Junpei Yamamaka)</b> Sota Inoue, Yasuyuki Kimura, *Yuki Uematsu, "Ostwald ripening of aqueous microbubble solutions"
11:30	<b>[3a-A] Topics 6, 7 (Chairperson: Laura Alvarez)</b> *Masamori Fujinami, Tomonori Nomoto, "The mechanism of the collective motion of the self-propelled objects at water surface using a quasi-elastic laser scattering method"	<b>[3a-B] Topics 5 (Chairperson: Dilip Kumar Satopathy)</b> *Seth Fraden, Wei-Shao Wei, Michael Hagan, Anthony Tribiuno, Christian Sigi, Hendrik Dietz, "Hierarchical assembly is more robust than egalitarian assembly in synthetic capsids" *Shunto Arai, "Role of flexible side chains in 2D crystallization of rigid frameworks"	<b>[3a-C] Topics 6 (Chairperson: Amélie Lefrestier)</b> *Hideki Seto, "Quasi-Elastic Neutron Scattering Studies on Hydration Water" *Andrew Jackson, Adrian Sanchez-Fernandez, Medina Basic, Jimmy Xiang, Sylvain Prevost, Cedric Dicko, "Hydration in Deep Eutectic Solvents and Protein Conformation" *Klemen Bohinc, "Charge Distribution within Lipid Head Groups and Nanoparticles on Electric Double Layer Properties"	<b>[3a-D] Topics 8 (Chairperson: Ko Okumura)</b> Yixuan Du, Yujun Lin, *Binyu Zhao, Günter K. Auerhammer, "Droplet Drying on Stretched Soft Substrates"	<b>[3a-E] Topics 1 (Chairperson: Junpei Yamamaka)</b> Sota Inoue, Yasuyuki Kimura, *Yuki Uematsu, "Ostwald ripening of aqueous microbubble solutions"
11:50	Lunch (Hotel NCB, 2F and 3F)				
13:00	Poster Session 2 (Room P) Topics: <i>Biological Matter, Active Soft Matter, and Living Soft Matter Rheology and Non-equilibrium phenomena in Soft Matter</i>				
15:00	Break				
15:10	<b>[3b-A] Topics 6 (Chairperson: Jaakko V. I. Timonen)</b> Keynote Speaker: Heping Zhang, "Collective phenomena of chiral swimming microorganisms"	<b>[3b-B] Topics 3, 4, 8 (Chairperson: Takeshi Kawasaki)</b> Keynote Speaker: Amelia Lu, "Small-beam diffraction measurements to probe local structure and local dynamics in glasses" *Paddy Royall, "A Reconciliation of the Theories of the Glass Transition?"	<b>[3b-C] Topics 6 (Chairperson: Karina Anna Kwapiszewska)</b> Keynote Speaker: Jesús Sungyun Jeon, "Recapitulating Human Disease Microenvironment in Microphysiological Systems" *Samuel Randriamanantsoa, Aristideidis Papatyriou, Hans Carl Maurer, Katja Peschke, Maximilian Schuster, Giulia Zecchin, Katja Steiger, Rupert Öllinger, Dieter Saur, Christina Scheel, Roland Rad, Edouard Hamzeo, Maximilian Reichert, Andreas Bausch, "Spatiotemporal dynamics of self-organized branching in pancreas-derived organoids" *Ryo Suzuki, Tetsuya Hirawa, Mark Lommel, Stefanie Höger, Stuart Özbek, Thomas W. Holstein, Motomu Tanaka, "Defining axis formation of Hydra regeneration via active deformation and Wnt signalling" *Hartmut Löwen, Fabian J. Schwarzendahl, Rene Wittmann, "Mechano-self-regulation of bacterial size in growing colonies"	<b>[3b-D] Topics 4, 7 (Chairperson: Thomas Voigtman)</b> Keynote Speaker: Ning Xu, "Instabilities of disordered solids under load" *Katerina Ioannidou, Metel Karadžić, Luma Li, Daan Frenkel, Jure Dobnikar, Emanuela Del Gado, "The crucial effect of early-stage gelation on the mechanical properties of cement hydrates"	<b>[3b-E] Topics 1 (Chairperson: Jens Harting)</b> Keynote Speaker: Yi Long Han, "Surface layers of colloidal crystals and glasses" *Xiaoyu Wu, Katherine Skipper, Yushi Yang, Ferihs Moore, John Russo, Charles Patrick Royall, Fiona Meldrum, "Higher Order Fluid Structures and Crystallisation Mechanism of Dipolar Colloids"
15:40	<b>[3b-A] Topics 6 (Chairperson: Jaakko V. I. Timonen)</b> *Helena Massana-Cid, Claudia Maggi, Giacomo Frangipani, Roberto Di Leonardo, "Magnetic colloidal crystals activated by light-driven bacteria"	<b>[3b-B] Topics 3, 4, 8 (Chairperson: Takeshi Kawasaki)</b> *Havato Shiba, Masatoshi Hanai, Toyotaro Suzumura, Takashi Shimokawabe, "Enhancing the predictive power of static structure in glassy systems by machine learning relative motion" *Makina Saito, Masashi Kobayashi, Haruki Nishino, Toshiyuki Hiraki, Yoshiaki Hori, Kazuo Kobayashi, Yasumasa Ioti, Kyojuku Ozeki, Yasuhiko Imai, Mitsuhiko Yamaoka, Tetsuya Abe, Nobumoto Nagasawa, Yoshitaka Yoda, Takaki Hattori, Yusuke Wakabayashi, "Novel Two-Dimensional Quasi-Elastic Scattering Imaging Technique to Visualize Microscopic Nanosecond Dynamics in Soft Matters"	<b>[3b-C] Topics 6 (Chairperson: Karina Anna Kwapiszewska)</b> Keynote Speaker: Jesús Sungyun Jeon, "Recapitulating Human Disease Microenvironment in Microphysiological Systems" *Samuel Randriamanantsoa, Aristideidis Papatyriou, Hans Carl Maurer, Katja Peschke, Maximilian Schuster, Giulia Zecchin, Katja Steiger, Rupert Öllinger, Dieter Saur, Christina Scheel, Roland Rad, Edouard Hamzeo, Maximilian Reichert, Andreas Bausch, "Spatiotemporal dynamics of self-organized branching in pancreas-derived organoids" *Ryo Suzuki, Tetsuya Hirawa, Mark Lommel, Stefanie Höger, Stuart Özbek, Thomas W. Holstein, Motomu Tanaka, "Defining axis formation of Hydra regeneration via active deformation and Wnt signalling" *Hartmut Löwen, Fabian J. Schwarzendahl, Rene Wittmann, "Mechano-self-regulation of bacterial size in growing colonies"	<b>[3b-D] Topics 4, 7 (Chairperson: Thomas Voigtman)</b> Keynote Speaker: Ning Xu, "Instabilities of disordered solids under load" *Katerina Ioannidou, Metel Karadžić, Luma Li, Daan Frenkel, Jure Dobnikar, Emanuela Del Gado, "The crucial effect of early-stage gelation on the mechanical properties of cement hydrates"	<b>[3b-E] Topics 1 (Chairperson: Jens Harting)</b> Keynote Speaker: Yi Long Han, "Surface layers of colloidal crystals and glasses" *Xiaoyu Wu, Katherine Skipper, Yushi Yang, Ferihs Moore, John Russo, Charles Patrick Royall, Fiona Meldrum, "Higher Order Fluid Structures and Crystallisation Mechanism of Dipolar Colloids"
16:00	<b>[3b-A] Topics 6 (Chairperson: Jaakko V. I. Timonen)</b> *Tzer Han Tan, Alexander Mietke, Junang Li, Yuchao Chen, Hugh Higginbotham, Peter J. Foster, Shreyas Gokhale, Jörn Dunkel, Nikita Ishitani, "Odd dynamics of living chiral crystals"	<b>[3b-B] Topics 3, 4, 8 (Chairperson: Takeshi Kawasaki)</b> *Ye Xu, Shaohua Yang, Yue Liu, Kaiqiang Sun, "Probing complex mechanical behaviors of soft and biological materials combining micro-mechanical testing and <i>in situ</i> imaging" *Marie Friederike Schulte, Steffen Bochenek, Simon Schögl, Walter Richtering, "Stiffness tomography - how to resolve the internal structure of super-soft objects at solid/liquid interfaces"	<b>[3b-C] Topics 6 (Chairperson: Karina Anna Kwapiszewska)</b> Keynote Speaker: Jesús Sungyun Jeon, "Recapitulating Human Disease Microenvironment in Microphysiological Systems" *Samuel Randriamanantsoa, Aristideidis Papatyriou, Hans Carl Maurer, Katja Peschke, Maximilian Schuster, Giulia Zecchin, Katja Steiger, Rupert Öllinger, Dieter Saur, Christina Scheel, Roland Rad, Edouard Hamzeo, Maximilian Reichert, Andreas Bausch, "Spatiotemporal dynamics of self-organized branching in pancreas-derived organoids" *Ryo Suzuki, Tetsuya Hirawa, Mark Lommel, Stefanie Höger, Stuart Özbek, Thomas W. Holstein, Motomu Tanaka, "Defining axis formation of Hydra regeneration via active deformation and Wnt signalling" *Hartmut Löwen, Fabian J. Schwarzendahl, Rene Wittmann, "Mechano-self-regulation of bacterial size in growing colonies"	<b>[3b-D] Topics 4, 7 (Chairperson: Thomas Voigtman)</b> Keynote Speaker: Ning Xu, "Instabilities of disordered solids under load" *Katerina Ioannidou, Metel Karadžić, Luma Li, Daan Frenkel, Jure Dobnikar, Emanuela Del Gado, "The crucial effect of early-stage gelation on the mechanical properties of cement hydrates"	<b>[3b-E] Topics 1 (Chairperson: Jens Harting)</b> Keynote Speaker: Yi Long Han, "Surface layers of colloidal crystals and glasses" *Xiaoyu Wu, Katherine Skipper, Yushi Yang, Ferihs Moore, John Russo, Charles Patrick Royall, Fiona Meldrum, "Higher Order Fluid Structures and Crystallisation Mechanism of Dipolar Colloids"
16:20	<b>[3b-A] Topics 6 (Chairperson: Jaakko V. I. Timonen)</b> *Dolachai Boniface, Pietro Tierro, "Light-induced osmotic/photoretic interactions for magnetic apolar colloids"	<b>[3b-B] Topics 3, 4, 8 (Chairperson: Takeshi Kawasaki)</b> *Ye Xu, Shaohua Yang, Yue Liu, Kaiqiang Sun, "Probing complex mechanical behaviors of soft and biological materials combining micro-mechanical testing and <i>in situ</i> imaging" *Marie Friederike Schulte, Steffen Bochenek, Simon Schögl, Walter Richtering, "Stiffness tomography - how to resolve the internal structure of super-soft objects at solid/liquid interfaces"	<b>[3b-C] Topics 6 (Chairperson: Karina Anna Kwapiszewska)</b> Keynote Speaker: Jesús Sungyun Jeon, "Recapitulating Human Disease Microenvironment in Microphysiological Systems" *Samuel Randriamanantsoa, Aristideidis Papatyriou, Hans Carl Maurer, Katja Peschke, Maximilian Schuster, Giulia Zecchin, Katja Steiger, Rupert Öllinger, Dieter Saur, Christina Scheel, Roland Rad, Edouard Hamzeo, Maximilian Reichert, Andreas Bausch, "Spatiotemporal dynamics of self-organized branching in pancreas-derived organoids" *Ryo Suzuki, Tetsuya Hirawa, Mark Lommel, Stefanie Höger, Stuart Özbek, Thomas W. Holstein, Motomu Tanaka, "Defining axis formation of Hydra regeneration via active deformation and Wnt signalling" *Hartmut Löwen, Fabian J. Schwarzendahl, Rene Wittmann, "Mechano-self-regulation of bacterial size in growing colonies"	<b>[3b-D] Topics 4, 7 (Chairperson: Thomas Voigtman)</b> Keynote Speaker: Ning Xu, "Instabilities of disordered solids under load" *Katerina Ioannidou, Metel Karadžić, Luma Li, Daan Frenkel, Jure Dobnikar, Emanuela Del Gado, "The crucial effect of early-stage gelation on the mechanical properties of cement hydrates"	<b>[3b-E] Topics 1 (Chairperson: Jens Harting)</b> Keynote Speaker: Yi Long Han, "Surface layers of colloidal crystals and glasses" *Xiaoyu Wu, Katherine Skipper, Yushi Yang, Ferihs Moore, John Russo, Charles Patrick Royall, Fiona Meldrum, "Higher Order Fluid Structures and Crystallisation Mechanism of Dipolar Colloids"
16:40	<b>[3b-A] Topics 6 (Chairperson: Jaakko V. I. Timonen)</b> *Cheng-Tai Lee, Tom Lubensky, Tomer Markovich, "Odd Elasticity in Disordered Chiral Active Materials"	<b>[3b-B] Topics 3, 4, 8 (Chairperson: Takeshi Kawasaki)</b> *Ye Xu, Shaohua Yang, Yue Liu, Kaiqiang Sun, "Probing complex mechanical behaviors of soft and biological materials combining micro-mechanical testing and <i>in situ</i> imaging" *Marie Friederike Schulte, Steffen Bochenek, Simon Schögl, Walter Richtering, "Stiffness tomography - how to resolve the internal structure of super-soft objects at solid/liquid interfaces"	<b>[3b-C] Topics 6 (Chairperson: Karina Anna Kwapiszewska)</b> Keynote Speaker: Jesús Sungyun Jeon, "Recapitulating Human Disease Microenvironment in Microphysiological Systems" *Samuel Randriamanantsoa, Aristideidis Papatyriou, Hans Carl Maurer, Katja Peschke, Maximilian Schuster, Giulia Zecchin, Katja Steiger, Rupert Öllinger, Dieter Saur, Christina Scheel, Roland Rad, Edouard Hamzeo, Maximilian Reichert, Andreas Bausch, "Spatiotemporal dynamics of self-organized branching in pancreas-derived organoids" *Ryo Suzuki, Tetsuya Hirawa, Mark Lommel, Stefanie Höger, Stuart Özbek, Thomas W. Holstein, Motomu Tanaka, "Defining axis formation of Hydra regeneration via active deformation and Wnt signalling" *Hartmut Löwen, Fabian J. Schwarzendahl, Rene Wittmann, "Mechano-self-regulation of bacterial size in growing colonies"	<b>[3b-D] Topics 4, 7 (Chairperson: Thomas Voigtman)</b> Keynote Speaker: Ning Xu, "Instabilities of disordered solids under load" *Katerina Ioannidou, Metel Karadžić, Luma Li, Daan Frenkel, Jure Dobnikar, Emanuela Del Gado, "The crucial effect of early-stage gelation on the mechanical properties of cement hydrates"	<b>[3b-E] Topics 1 (Chairperson: Jens Harting)</b> Keynote Speaker: Yi Long Han, "Surface layers of colloidal crystals and glasses" *Xiaoyu Wu, Katherine Skipper, Yushi Yang, Ferihs Moore, John Russo, Charles Patrick Royall, Fiona Meldrum, "Higher Order Fluid Structures and Crystallisation Mechanism of Dipolar Colloids"
17:00	<b>[3b-A] Topics 6 (Chairperson: Jaakko V. I. Timonen)</b> *Valerio Sonichetti, Ariadela Saric, "Electrostatic 'patchy' interactions drive chromosomal clustering in eukaryotes"	<b>[3b-B] Topics 3, 4, 8 (Chairperson: Takeshi Kawasaki)</b> *Ye Xu, Shaohua Yang, Yue Liu, Kaiqiang Sun, "Probing complex mechanical behaviors of soft and biological materials combining micro-mechanical testing and <i>in situ</i> imaging" *Marie Friederike Schulte, Steffen Bochenek, Simon Schögl, Walter Richtering, "Stiffness tomography - how to resolve the internal structure of super-soft objects at solid/liquid interfaces"	<b>[3b-C] Topics 6 (Chairperson: Karina Anna Kwapiszewska)</b> Keynote Speaker: Jesús Sungyun Jeon, "Recapitulating Human Disease Microenvironment in Microphysiological Systems" *Samuel Randriamanantsoa, Aristideidis Papatyriou, Hans Carl Maurer, Katja Peschke, Maximilian Schuster, Giulia Zecchin, Katja Steiger, Rupert Öllinger, Dieter Saur, Christina Scheel, Roland Rad, Edouard Hamzeo, Maximilian Reichert, Andreas Bausch, "Spatiotemporal dynamics of self-organized branching in pancreas-derived organoids" *Ryo Suzuki, Tetsuya Hirawa, Mark Lommel, Stefanie Höger, Stuart Özbek, Thomas W. Holstein, Motomu Tanaka, "Defining axis formation of Hydra regeneration via active deformation and Wnt signalling" *Hartmut Löwen, Fabian J. Schwarzendahl, Rene Wittmann, "Mechano-self-regulation of bacterial size in growing colonies"	<b>[3b-D] Topics 4, 7 (Chairperson: Thomas Voigtman)</b> Keynote Speaker: Ning Xu, "Instabilities of disordered solids under load" *Katerina Ioannidou, Metel Karadžić, Luma Li, Daan Frenkel, Jure Dobnikar, Emanuela Del Gado, "The crucial effect of early-stage gelation on the mechanical properties of cement hydrates"	<b>[3b-E] Topics 1 (Chairperson: Jens Harting)</b> Keynote Speaker: Yi Long Han, "Surface layers of colloidal crystals and glasses" *Xiaoyu Wu, Katherine Skipper, Yushi Yang, Ferihs Moore, John Russo, Charles Patrick Royall, Fiona Meldrum, "Higher Order Fluid Structures and Crystallisation Mechanism of Dipolar Colloids"
17:20					



# DAY 4: September 7 (Thu)

	Room A (10F)	Room B (10F)	Room C (10F)	Room D (10F)	Room E (12F)
9:30	Plenary Talk 5 (Chair: Masayuki Imai) (Room A) <b>Zvonimir Dogic</b> , "Assembly, disassembly, and mechanics of colloidal vesicles"				
10:20	Coffee break (10F Lobby)				
10:50	<b>[4a-A] Topics 6</b> (Chairperson: <b>Yair Augusto Gutierrez Fosado</b> ) *Manoj Kumar, Aniruddh Murlid, Arvin Gopal Subramaniam, Rakesh Singh, Shashi Thutupalli. "Emergent rigidity in chemically self-interacting flexible active polymers" *Emanuele Locatelli. "Interplay between topology and confinement in active polymers" *Aparajith Chatterji, Debanshi Mitra, Shreekrishna Pandey. "Topology driven spatial organization of DNA-ringing polymers under confinement"	<b>[4a-B] Topics 8</b> (Chairperson: <b>Haim Diamant</b> ) *Qun-Li Lei, Feng Tang, Ji-Dong Hu, Yu-Qiang Ma, Ran Ni. "Duality: Hidden Symmetry and Dynamic Isomerism in 2D Hinge Structures" *Aref Ghorbani, Corentin Coulais, Mehdi Habibi, Martin van Hecke. "Metamaterials as mechanical memory units" *Solemn Riedel, Ludwig A. Hoffmann, Daniela J. Kraft. "Activity-induced cluster formation of colloids with continuously tunable shape"	<b>[4a-C] Topics 2, 8</b> (Chairperson: <b>Tak Shing Chan</b> ) *Guruswamy Kumaraswamy, Vivek Sharma, Uday Paulbudhe, Nirmla Bachhar, Samir Chikkali. "Unprecedented adhesion of polyethylene-grafted sheet-like silsesquioxanes" *Ambré Bouillant, Christopher Henkel, Uwe Thiele, Snoeijer Jacco, Bruno Andreotti. "Breath figures on soft solids" *Francis J Dent, Sepideh Khodaparast. "Deterministic pattern modulation in temporally arrested breath figure"	<b>[4a-D] Topics 7</b> (Chairperson: <b>Patrice Bacchin</b> ) *Simon James Howard, Francisco Pimenta, Stylianos Varchanis, Daniel W. Carlson, Kazumi Toda-Peters, Gareth H McKinley, Manuel A. Alves, Amy Q Shen. "Extensional Rheometry using Numerically-optimized Stagnation Point Microfluidic Devices" *Ricardo Arturo Lopez de la Cruz, Simon J. Haward, Amy Q. Shen. "Characterization of inertialess viscoelastic canopy flows" *SeungHo Choe. "Spontaneous translocation of cell-penetrating peptides across a model membrane using molecular dynamics simulations"	<b>[4a-E] Topics 1, 5</b> (Chairperson: <b>Peter Keim</b> ) Wenbin Chen, Wei Chen, Zhiyou Wei, Tao Li. "Continuous Emulsion Channels Achieved by Mediating the Aqueous-Oil Interface Solely with Rough Colloids" *Airi Nakamoto, Kato, Yujie Jiang, Wei Chen, Ryohei Seto, Tao Li. "Interfacial behaviors of rough colloids" *Sunita Srivastava. "Tunable nanoscale assembly in surface deposit of colloidal suspensions"
11:10					
11:30					
11:50					
13:00	Poster Session 3 (Room P) Topics: <i>Colloidal Soft Matter and Emulsions</i> , <i>Glasses, Arrested Soft Matter, Jamming, and Granular Materials</i> , <i>Self-assembled Soft Matter</i>				
15:00	Break				
15:10	Plenary Talk 6 (Chair: Shigeyuki Komura) (Room A) <b>Vincenzo Vitelli</b> , "Pattern formation by turbulence"				
16:00	Break				
16:10	<b>[4b-A] Topics 6</b> (Chairperson: <b>Gunnar Pruessner</b> ) Keynote Speaker: <b>Chantal Valeriani</b> , "Mechanical properties of active materials, ranging from suspensions of Active Brownian Particles to bacterial biofilms" *Raghunath Chelakkot, Monika Sanoria, Amitabha Nandi. "Novel non-equilibrium phases in systems of active Brownian particles" Isabelle Eisenmann, Alfredo L'Homme, Sandrine Bujaldon, Alioune Iahou, Thomas Le Saux, Benjamin Baillet, Nicolas Desprat, Raphael Jeanneret. "Collective photoprotection through light-induced phase separation in a phototactic micro-algae"	<b>[4b-B] Topics 4, 7</b> (Chairperson: <b>Peng Tan</b> ) Keynote Speaker: Limei Xu, "Order behind disorder in glass-forming Materials" *Takeshi Kawasaki, Kunimasa Miyazaki. "Non-linear rheology of amorphous solids near the jamming transition" *Akira Furukawa. "What determines non-Newtonian flow behavior in glass-forming liquids?"	<b>[4b-C] Topics 5</b> (Chairperson: <b>Kyohel Takae</b> ) Keynote Speaker: <b>John Russo</b> , "Satisfaction guaranteed: some solutions to the inverse self-assembly problem" *Diogo E. P. Pinto, Petr Šulc, Francesco Sciortino, John Russo. "Design strategies for the self-assembly of finite size structures" *Luyen Tu Lieu, Natsuhiko Yoshinaga. "Inverse Design of two-dimensional Dodecahedral Quasicrystal Structure by Patchy Particles"	<b>[4b-D] Topics 4, 6</b> (Chairperson: <b>Kunimasa Miyazaki</b> ) Keynote Speaker: Ran Ni, "Non-equilibrium hyperuniform fluids and phase transitions" *Erdal Celal Oguz, Haim Diamant. "Structural Glass Transition of Hyperuniform Liquids" *Rosalba Garcia-Millan, Marius Bothe, Letian Chen, Luca Cocconi, Ziluo Zhang, Zigan Zhen, Gunnar Pruessner. "Microscopes of motility-induced phase separation"	<b>[4b-E] Topics 1, 6</b> (Chairperson: <b>Daisuke Mizuno</b> ) Keynote Speaker: <b>Olivier Dauchot</b> , "Reconfiguration, Interrupted Aging and Enhanced Dynamics of a Colloidal Gel using Photo-Switchable Active Doping" *Yujie Jiang, Ryohei Seto. "Colloidal Gels with Passive and Active Filling"
16:40					
17:00					
17:20	Break				

# DAY 5: September 8 (Fri)

	Room A (10F)	Room B (10F)	Room C (10F)	Room D (10F)	Room E (12F)
9:30	Plenary Talk 7 (Chair: Hajime Tanaka) (Room A) <b>Srikanth Sastry</b> , "Yielding and fatigue failure in cyclically driven amorphous solids"				
10:20	Coffee break (10F Lobby)				
10:50	<b>[5a-A] Topics 6</b> <b>(Chairperson: Kision Voitkovich)</b> *Marcel Höhring, Torsten Bullmann, Tatsuo Shibata, "3D Membrane Shape and Local Curvature Regulates Excitable Lipid Dynamics in Cell Membranes"	<b>[5a-B] Topics 5</b> <b>(Chairperson: Edward Van Keuren)</b> *Mavu Shono, Gen Honda, Miho Yanagisawa, Kenichi Yoshikawa, Akihisa Shioh, "Formation of uniform cell-sized droplets entrapping biomacromolecules by aqueous phase separation in a glass capillary"	<b>[5a-C] Topics 2</b> <b>(Chairperson: Aurel Radulescu)</b> *Sara Del Galdo, Carlo Andrea De Filippo, Luca Stefanuto, Simona Seminato, Tecla Gasperi, Ester Chiessi, Barbara Capone, "Unveiling the thermoresponsive mechanism of PIPOx in aqueous solution"	<b>[5a-D] Topics 6, 7, 8</b> <b>(Chairperson: Minne Paul Lettinga)</b> *Gaia De Angelis, Viviane Lutz-Bueno, Esther Amstad, "The rheological properties of viscoelastic membranes vs. bulk hydrogels"	<b>[5a-E] Topics 1, 2</b> <b>(Chairperson: Andrew Jackson)</b> *Carlo Rikoni, Grégoire Beaune, Bent Harnist, Fereshteh Sohrabi, Tony Cherian, Olli Ikkala, Jaakko V. I. Timonen, "Magnetic instabilities at atypical interfaces"
11:10	*Hiroshi Noguchi, "Reaction-diffusion dynamics in deformable membrane"	*Anastasia Mirmiliuk, Hiroki Iwase, Kathleen Wood, Martin Dulle, Beate Förster, Marie-Sousai Appavou, Aurel Radulescu, "Polyelectrolyte/protein synergism for the design of reversible pH-responsive micelles and targeted drug delivery"	*Takashi Konishi, Koji Fukao, Yoshihisa Miyamoto, "Polymer Crystallization with Crystalline Nodular Aggregation near the Glass Transition Temperature"	*Hiroyuki Ebata, Daisuke Mikuno, "Mechanics of cell cytoplasm driven by non-thermal fluctuation"	*Andrey A. Kuznetsov, Ekaterina V. Novak, Elena S. Pyanzha, Vladimir S. Zverev, Sofia S. Kantorovich, "Ferrofluids based on multicomponent magnetic nanoparticles: understanding static and dynamic magnetic response"
11:30	*Melissa Rinaldin, Jan Brugués, "Dynamic instability of cell-like compartments"	*Tytti Kätkö, Senna Luntama, Ankur Chattopadhyay, Jaakko V. I. Timonen, "Non-equilibrium levitation phenomena in quasi-two-dimensional drops"	*Yair Augusto Gutierrez Fosado, Georgia Palombo, Davide Michieletto, "Topological nature of elasticity in networks with limited valence"	*Vincent Njage, Pierre Lehericq, Jan Vermant, Lucio Isa, "Imaging the motion of colloids in dense suspensions under shear"	*Deniz Mostarac, Pedro A. Sanchez, Sofia Kantorovich, "Hybrid approach to simulate magnetization dynamics of magnetic colloids, applied to suspensions of magnetic filaments"
11:50	Lunch (Hotel NCB, 2F and 3F)				
13:10	Plenary Talk 8 (Chair: Takashi Uneyama) (Room A) <b>Hiroshi Watanabe</b> , "Nonlinear Rheology of Polymer Melts"				
14:00	Break				
14:10	<b>[5b-A] Topics 6</b> <b>(Chairperson: Hiroshi Noguchi)</b> *Billie Meadowcroft, Ivan Palala, Anne-Katharina Pfitzner, Aurélien Roux, Buzz Baum, Andela Šarić, "Mechanochemical Rules for Shape-Shifting Filaments that Remodel Membranes"	<b>[5b-B] Topics 5</b> <b>(Chairperson: Erdal Celal Oguz)</b> *Andrea Plati, Etienne Faven, Raphaël Maire, François Boulogne, Frédéric Restagno, Frank Smallegang, Giuseppe Foffi, "Quasi-crystalline order in vibrated granular matter"	<b>[5b-C] Topics 2</b> <b>(Chairperson: Takashi Konishi)</b> *Peilin Rao, Xiyu Yang Xia, "Entropy Driven Thermo-gelling Vitrimer"	<b>[5b-D] Topics 7, 8</b> <b>(Chairperson: Mathieu Leocmach)</b> *Othmane Aouane, Andrea Scagliarini, Jens Harting, "Rheology of elastic capsules in a confined shear flow"	<b>[5b-E] Topics 1, 3</b> <b>(Chairperson: Da Wang)</b> *René Wittmann, Paul A. Monderkamp, Hartmut Löwen, "Particle-resolved topology of smectic colloidal liquid crystals"
14:30	*Wei-Chen Chen, Wei-Yu Chen, Cheng-Yang Liu, "Continuously adjustable living soft optical microleons achieved by red blood cells"	*Chiara Morretti, Claire Goldmann, Mariame Impéror-Clerc, Benjamin Abécassis, "Gold nanoparticle superlattices: conditions for long range order, Moiré patterns and binary phase from a single population"	*Takashi Taniguchi, Mavank Dixit, "Molecular insights into the formation of Natural Networking Structure in Natural Rubber: A Molecular Dynamics Simulation Study"	*Beatrice E. Jones, Elaine A. Kelly, Nathan Cowleson, Giorgio Divitini, Rachel C. Evans, "Light-responsive cubosomes: triggering molecular release with stretch-squeeze lattice control"	
14:50	*Antonio Suma, Daniel Sigg, Seamus Gallagher, Giuseppe Gonnella, Vincenzo Carnevale, "Ion channels in critical membranes: clustering, cooperativity, and memory effects"	*Maitane Muñoz-Basagoti, Angus McMullen, Jarna Brulic, Zorana Zérazovic, "Self-assembly of colloidal polymers via programmable folding"	*Naoyuki Sakumichi, Takamasa Sakai, "Negative Energetic Elasticity in Rubber-like Gels"	*Yuiro Sugino, Hiroyuki Ebata, Yoshiyuki Sowa, *Daisuke Mizuno, "Fluctuation and Rheology of Dense Active Suspension"	*Yoshihiko Takemaka, Miha Škarabot, Igor Musevic, "Connected colloid structure made of nematic liquid crystal"
15:10	Break				
15:20	Poster Awards and Closing Remark: Hajime Tanaka (Room A)				
15:40					

# POSTER PROGRAM

## POSTER SESSION 1: September 5 (Tue) 13:00-15:00

Topics: Polymeric Soft Matter

Liquid Crystal and Anisotropic Soft Matter

Others, including Interfacial Soft Matter, Metamaterials, and Industrial Soft Matter

### Topics: Polymeric Soft Matter

- P1-1 [Wei Guo](#), "Phase-separating all-aqueous droplets for biomimetic membraneless compartments"
- P1-2 [Hitesh Garg](#), "The conformational phase diagram of neutral polymers in the presence of attractive crowders"
- P1-3 [Charles Tkaczyk](#), "PET/PEO copolymer electrolytes for use in all-solid-state Li-ion batteries"
- P1-4 [Henri Savolainen](#), "Light-triggered transient self-adhesion in low-hysteresis hydrogels"
- P1-5 [Soňa Mesíková](#), "Hydrogels based on electrostatic interaction of symmetric triblock copolymers with *c*l<sub>o</sub>so-dodecaborate dianions"
- P1-6 [Filip Uhlík](#), "Hairy Gels"
- P1-7 [Max Huisman](#), "Humidity insensitive evaporation of concentrated polymer solutions"
- P1-8 [Feipeng Chen](#), "Size scaling of membrane-less compartments by phase separation"
- P1-9 [Kokoro Shikata](#), "Revealing the hidden dynamics of confined water in acrylate polymers: Insights from hydrogen-bond lifetime analysis"
- P1-10 [Wenqi Song](#), "Preparation and quantitative nanomechanics of hydrated salt phase-change gel"
- P1-11 [Yunzhe Li](#), "Charged azobenzene-based photoswitches for controlled intramolecular compaction and intermolecular coacervation of DNA"
- P1-12 [Naoki Iso](#), "Phase separation of soft polymer mixtures"
- P1-13 [Giorgia Palombo](#), "Protein-Functionalised DNA Nanostar Hydrogels"
- P1-14 [Katarzyna Bys](#), "Structural Transformation and Charge Regulation of Natural Rubber-Derived Polymeric Anticoagulants"
- P1-15 [Takashi Yasuda](#), "Semidilute principle for polymer gels"
- P1-16 [Alex Gresty](#), "Understanding the links between microscopic molecular relaxations and macroscopic mechanical properties in plasticised cellulosic films"
- P1-17 [Ajeeth Kanagarajan](#), "Studying the permeation of small molecules in polyvinyl acetate, PVAc"
- P1-18 [Eugénia Delacou](#), "Surface Interaction Between Hyaluronic Acid and Biomimetic Substrates"
- P1-19 [Jenny Harnett](#), "Microrheology of Dense DNA Origami"
- P1-20 [Mitsuki Nagaura](#), "Direct Observation of Sound Wave Propagation and Attenuation in Hydrogels"
- P1-21 [Aathira Murali](#), "Moisture Responsive Chitosan Film"
- P1-22 [Jaewon Shim](#), "Ordered Structure and Rheological Properties at Solid-Liquid Interfaces"
- P1-23 [Laura Roset Julià](#), "Nature-inspired Circular Recycling of protein materials (NaCRe)"
- P1-24 [Naoya Yanagisawa](#), "Effects of extreme size polydispersity on solution properties of polymers: an example of a power-law size distribution"
- P1-25 [Aneta Karpińska](#), "Polymeric solutions in the entangled regime as a universal technique of delivering macromolecules into mammalian cells"
- P1-26 [Snigdharani Panda](#), "Porous Gold nanorod Integrated Biocompatible Hybrid hydrogel: A long wavelength based Photo-Chemo Therapeutic model"
- P1-27 [Shota Goto](#), "Non-Gaussianity and dynamic heterogeneity in ring polymer melts"
- P1-28 [Luca Stefanuto](#), "Design and synthesis of Poly(2-oxazoline)s for wastewater treatment"
- P1-29 [Agnese Ricci](#), "Molecularly Imprinted Poly(2-oxazoline) in the Clean-Up of Water Pollutants"
- P1-30 [Dorothy Gogoi](#), "Segregation of Fluids with Polymer Additives at Domain Interfaces: A Dissipative Particle Dynamics Study"
- P1-31 [Yongjian Zhu](#), "Quantifying the effects of slit confinement on polymer knots using the tube model"
- P1-32 [Hiroki Yamaguchi](#), "Case Study on Water Repellency of Methacrylate-typed Copolymer with Fluoroalkyl and Isobornyl Side Chain"
- P1-33 [Dai Matsubara](#), "Effect of closed loop structure of diblock copolymer on nanoscale phase-separated pattern"
- P1-34 [Ganesh Kumar Rajahmundry](#), "Effects of ion size and dielectric constant on the phase behaviour of polymer electrolyte"
- P1-35 [Hiromi Murashige](#), "Small-Angle Neutron Scattering Reveals Length Selectivity of Alkanes Absorbed in P4MP1 Films"
- P1-36 [ANKIT PATIDAR](#), "DEVELOPMENT AND VALIDATION OF MARTINI COARSE-GRAINED FORCE-FIELD PARAMETERS FOR THERMOPLASTIC STARCH CLAY NANOCOMPOSITES"
- P1-37 [Yasumasa Kanekiyo](#), "Deformation Behavior of Ethanol-Responsive Bilayer Hydrogels Combined with Electric Conductors"
- P1-38 [Elham Ghobadpour](#), "Multi-scale polymer modeling of bacterial chromosomes"
- P1-39 [Elena Yu. Kozhunova](#), "Polymer-based redox-active microgels: synthesis and electrochemical properties"
- P1-41 [Jan Zahrádka](#), "From revealing relationship between structure and performance of hydrogels to development of gels with tailored material properties"

## Topics: Liquid Crystal and Anisotropic Soft Matter

- 
- P1-42 [Matheus de Mello](#), "Atomistic simulations of ferroelectric nematic liquid crystals: microscopic behavior and properties"
- 
- P1-43 [William de Castilho](#), "A renormalization group study of a cholesteric liquid crystal"
- 
- P1-44 [David King](#), "How particle geometry affects the Smectic transition: a tip off"
- 
- P1-45 [Frédéric Grabowski](#), "Anisotropic Microgels by Supramolecular Assembly and Precipitation Polymerization of Pyrazole-Modified Monomers"
- 
- P1-46 [Jun Yoshioka](#), "Structure formation and rotation of a chiral liquid crystalline droplet under temperature gradient"
- 
- P1-47 [Di Wang](#), "Machine learning for vapour-liquid equilibrium"
- 
- P1-48 [Toshihiko Oka](#), "Aggregation Structure of Chiral Cubic Liquid Crystals Revealed by X-ray Diffraction Utilizing a New Algorithm"
- 
- P1-49 [Shoichi Kutsumizu](#), "Control of  $1a\bar{3}d$  phase formation in aryloyl-hydrazine-based molecules by introducing the side group and slight nonsymmetry into the core moiety"
- 
- P1-50 [Yuki Ito](#), "Marangoni convection induced by temperature gradient in a droplet of cyanobiphenyl liquid crystals"
- 
- P1-51 [Orlaith Skelton](#), "Sustainable Formulations: Cellulose Based Colloid-nematic Gels"
- 
- P1-52 [Daichi Sato](#), "Observation of shape of self-assembled liquid crystal fiber with addition of polymerizable liquid crystal monomer"
- 
- P1-53 [Nadja Anna Wolter](#), "Synthesis of asymmetric microgels containing liquid crystalline domains via precipitation polymerization"
- 
- P1-54 [Zhanglin Hou](#), "Melting behavior of truncated rhombs: 5 scenarios induced by competition of positional and orientational entropy"
- 
- P1-55 [Hiroyuki Matsukizono](#), "Characterization of 1,3-Dioxane-based Liquid Crystals Showing Ferroelectric Nematic Phases"
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- P1-56 [Akinori Ooka](#), "Structural investigation of self-organized stripe domains in liquid crystal gels by two external forces"
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- P1-57 [Jinxu Liu](#), "Columnar Liquid Crystalline Corannulene with Axial Ferroelectricity"
- 
- P1-58 [Shingo Yoshioka](#), "Dynamic coupling of Brownian Motion of Colloidal Particles and Topological Dynamics of Surfactant Sponge Phase in Mixture"
- 
- P1-59 [Nicolas Brouckaert](#), "Optical and electrical characterisation of self-powered spatial-light modulators through optical measurements"
- 
- P1-60 [Vincenzo Calabrese](#), "A unified framework to describe shear- and extension-induced alignment of macromolecules of various extensibility"
- 
- P1-61 [Akash Satish Patil](#), "Coupled Photo-Mechanics of Nematic Liquid Crystal Elastomers - An ABAQUS UEL Implementation"
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- P1-62 [Rei Amano](#), "Analysis of Lebwohl-Lasher model with randomness"
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- P1-63 [Denitsa Bankova](#), "Photovoltaic liquid crystal lenses"
- 
- P1-64 [Akhil Reddy Peeketi](#), "An atomistic scale simulation of light-induced density changes in azo-modified liquid crystal polymers"
- 
- P1-65 [Divya Jayoti](#), "Dynamics of geometry controlled self-sustained oscillations exhibited by liquid crystal polymer network films: experiments and simulations"
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- P1-66 [Eiki Kawanishi](#), "Resolution improvement of order parameter modulation for molecular manipulation in nematic liquid crystal utilizing the shorter lifetime of cis isomer"
- 
- P1-67 [Guido Kusters](#), "How liquid crystal networks work in theory"
- 
- P1-68 [Harsha Maheshwari](#), "Native Protein Sensing by Microdroplets from Light-treated Nematic Liquid Crystals"
- 
- P1-69 [Omar-Farouk Adesida](#), "Nested Sampling as a Tool for Exploring the Thermodynamics of Hard-Sphere Dimers"
- 
- P1-70 [Faidat Akinwale Braimoh](#), "The Effect of Stearic Acid on the Phase Behavior and Melt Crystallization of Sodium Lauroyl Isethionate"
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**Topics: Others, including Interfacial Soft Matter, Metamaterials, and Industrial Soft Matter**

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- P1-71 [Yue Shen](#), "Surface evolution of eutectic salt hydrate phase change materials for thermal energy storage monitored by scanning probe microscopy"
- 
- P1-72 [Seonghwan Park](#), "Preparation of alumina-decorated boron nitride composite particle by electrostatic absorption and its application for thermal interface material"
- 
- P1-73 [Yusuke Asakuma](#), "Mutarotation phenomenon of  $\alpha$ -glucose aqueous solution during microwave irradiation"
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- P1-74 [Souta Koreeda](#), "Dispersibility of mono-, di-, and tri-saccharides from refractive index during microwave irradiation"
- 
- P1-75 [Keisuke Yoshida](#), "Wrinkling of a heavy elastic sheet on a frictional substrate"
- 
- P1-76 [Masami Kageshima](#), "Experimental Study of a Near-Critical Binary System at a Distance-Scale Comparable to Correlation Length"
- 
- P1-77 [Jian Su](#), "Diffuse-interface method for multiphase flows involving solvent evaporation and complex solid topology"
- 
- P1-78 [Taiki Toyonaga](#), "Morphing a cellular plate into a doubly-curved shape"
- 
- P1-79 [Kouhei Komori](#), "Molecular dynamics simulations of highly concentrated electrolytes"
- 
- P1-80 [Kieran Harris](#), "Epoxy-Amine Segregation at a Solid Surface"
- 
- P1-81 [Kota Mitsumoto](#), "Elastic heterogeneity governs asymmetric adsorption-desorption in a soft porous crystal"
- 
- P1-82 [Yechan Chang](#), "Continuous production of dendritic mesoporous silica nanoparticles"
- 
- P1-83 [Fan Meng](#), "Relationship between nanostructured bio-inspired materials surfaces and free energy barrier using coarse-grained molecular simulation"
- 
- P1-84 [Shengdi Zhang](#), "Eutectic Salt Hydrate Phase Change Material with Enhanced Thermal Performance for Energy Storage"
- 
- P1-85 [Eiji Hatta](#), "The cluster size distributions in the two-phase coexistence region of Langmuir monolayers"
- 
- P1-86 [Shinichiro Yoshikawa](#), "Development of droplet evaporation model using MPS method"
- 
- P1-87 [Nicola Haynes](#), "Quantifying Agrochemical Droplet Deposits via Raman Spectroscopy and Factor Analysis"
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- P1-88 [Shaohua Yang](#), "Microscale 3D Stress-Strain Measurement for Soft Material Interface Failure"
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- P1-89 [Shunta Kikuchi](#), "Effect of surfactants on the elasticity of the liquid-liquid interface"
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- P1-90 [Lamei Du](#), "Conformal Analysis of Customizable Kirigami Structure Attached onto Complex Surface"
- 
- P1-91 [Kenji Yoshimoto](#), "Effect of Tension on the Non-Solvent Induced Phase Separation of Viscoelastic Polymer Solution"
- 
- P1-92 [Shigeki Uzuki](#), "Structural analysis of the effect of thermal annealing on ionomer thin film on Pt surface"
- 
- P1-93 [Zhibin XU](#), "Generalization of the Hall-Petch and inverse Hall-Petch behaviors by tuning amorphous regions"
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- P1-94 [Corey Stewart](#), "Long-range attraction of picolitre sessile drops"
- 
- P1-95 [Chih-Yu Chang](#), "Surface engineering for ultrahigh power output and stable flexible all-polymer triboelectric nanogenerators"
- 
- P1-96 [Marta Krasowska](#), "Effect of adsorbed Guar Gum on bubble collision and attachment"
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- P1-97 [Francesco Guidarelli Mattioli](#), "Breaking the Ice with Neural Network Potentials:reproducing the nucleation properties of the mW water model"
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## POSTER SESSION 2: September 6 (Wed) 13:00-15:00

*Topics: Biological Matter, Active Soft Matter, and Living Soft Matter  
Rheology and Non-equilibrium phenomena in Soft Matter*

### **Topics: Biological Matter, Active Soft Matter, and Living Soft Matter**

- P2-1 [Sergii Rudiuk](#), "Hybrid DNA-protein nanogels: functionalization and transfection"
- P2-2 [Jiankang Song](#), "Depletion-mediated formation of supraproteins"
- P2-3 [Agur Sevink](#), "The versatile role of plastic crystallinity in solar energy harvesting"
- P2-4 [Adam Kowalski](#), "Separating the effect of depletion interactions and Coulomb forces in crowded environments"
- P2-5 [Ryota Morikawa](#), "Analysis of shape dependence in membrane fusion of nano-sized vesicles using the DPD method"
- P2-6 [Kang Kim](#), "Explaining of reaction coordinates in complex molecular systems using deep learning and XAI: Application to alanine dipeptide isomerization"
- P2-7 [Yuta Kuroda](#), "Hyperuniformity and singular density correlation in chiral active fluids"
- P2-8 [Shigeyuki Komura](#), "Odd elasticity of a catalytic micromachine"
- P2-9 [Solomon Asghar](#), "Sampling Transition Paths of Active Matter with Deep Learning"
- P2-10 [Takuya Kobayashi](#), "Microswimmer's rotlet dipole enhanced swimming speeds in viscoelastic fluids"
- P2-11 [Alberto Scacchi](#), "Approaching aqueous two-phase systems via coarse-grained modelling: A general model matching experiments"
- P2-12 [Camille Jorge](#), "Constructing active hydraulics laws from frustrated-magnetism perspective"
- P2-13 [Xiuyang Xia](#), "The role of receptor uniformity in multivalent binding"
- P2-14 [Sankaewtong Krongtum](#), "Smart microswimmer navigation using hydrodynamical signals"
- P2-16 [Kojiro Kaneko](#), "Simulation of Self-propelled Rods with Curved Geometries"
- P2-17 [Petch Khunpetch](#), "Curvature effects in charge-regulated lipid bilayers"
- P2-18 [Anzhelika Koldaeva](#), "Microbial population dynamics and selective advantage in microchannels"
- P2-19 [Hiroki Matsukiyo](#), "Oscillating Edge Current in Toner-Tu-Swift-Hohenberg Active Fluid"
- P2-20 [Alex Brown](#), "Condensate Capillary Bridges Between Lipid Membranes and Vesicles"
- P2-21 [Kento Yasuda](#), "Most probable path of an active Brownian particle"
- P2-22 [Abhinav Singh](#), "Three-Dimensional Wrinkling and Spontaneous Flow in Active Polar Fluids"
- P2-23 [Li-Shing Lin](#), "Onsager's Variational Principle for Nonreciprocal Systems with Odd Elasticity"
- P2-24 [Mehdi Ait Yahia](#), "The Energy Cost Of Membrane-Cortex Deformation In Phagocytosis Of Different Sized Pathogens"
- P2-25 [Haigui Wang](#), "Persistent random walk: a phenomenological paradigm for cell migration on solid substrates"
- P2-26 [Zhihao Li](#), "Variational methods and deep-learning methods for active matter physics"
- P2-27 [Chiho Watanabe](#), "Dynamic ordering of source-sink co-responsive active droplets"
- P2-28 [Jessica Mustali](#), "A combination study of molecular dynamics simulation and unsupervised deep learning for accelerating drug discovery"
- P2-29 [Yasutaka Iwashita](#), "Self-entrapment and non-equilibrium motion of self-propelled rod"
- P2-30 [Naohito Urakami](#), "Vesicle growth and division induced by the addition of lipids"
- P2-31 [Juria Tanaka](#), "Membrane Viscosity of Ternary Vesicles in a Wide Composition-Temperature Space"
- P2-32 [Florian von Ruling](#), "Permeation dynamics of active swimmers through anisotropic porous walls"
- P2-33 [Seyed Reza Seyednejad](#), "Nematic Flow Induced by Active Surface Anchoring"
- P2-34 [Takuro Kataoka](#), "Mechanics of wrapping transition of a bacterial flagellum"
- P2-35 [Prabhash Kumar](#), "Understanding the role of convective mixing on gas exchange and aerosols deposition in lung acini"
- P2-36 [Felix Frey](#), "Modeling membrane trafficking in flowering plants"
- P2-37 [Tatsuya Fukuyama](#), "Continuum mechanical model for collective cell migration driven by interactions under travelling signal wave"
- P2-38 [Ayase Kawamura](#), "Self-propulsion of 3-Phenylpropionaldehyde Droplet with surfactant"
- P2-39 [Annael Sort-Montenegro](#), "Electrically propelled micro-droplets with reversed motion"
- P2-40 [Kevin Klein](#), "Modelling Collagen Self-Assembly"
- P2-41 [Yutaka Sumino](#), "Active cluster formation of driven colloids by electro hydrodynamic flow"
- P2-42 [Masatoshi Ichikawa](#), "Swimming droplet makes an end to straight motion by increase in size"
- P2-43 [Reo Arakaki](#), "Effective Size of Orbiting Self-Propelled Particle"
- P2-44 [Tetsuya Yamamoto](#), "Energy Spectrum Analysis on a Red Blood Cell Model"

P2-45	<a href="#">Yuki Matsuo</a> , "A Self-accumulation of colloidal particles driven by self-propelled microtubules: dynamics in of the mixture of active and passive mixturematter"
P2-46	<a href="#">Xinpeng Xu</a> , "Structure optimization using the microbial-induced calcium carbonate process in granular materials"
P2-47	<a href="#">Kohei Okuyama</a> , "Mesoscale Dynamics in Condensed Suspensions of Microswimmers, <i>Tetrahymena pyriformis</i> "
P2-48	<a href="#">Siji Stella Saju</a> , "Tumbling dynamics of an active filament in simple shear flow"
P2-49	<a href="#">Hiroki Sakuta</a> , "Self-Emerging Vortex Flow of Microtubule/Kinesin in the Microdroplet of Water/Water Phase Separation"
P2-50	<a href="#">Terpsichori Alexiou</a> , "Effective interactions between double-stranded DNA molecules in aqueous electrolyte solutions: effects of molecular architecture and counterion valency"
P2-51	<a href="#">Mika Kobayashi</a> , "Generation of metastable phase-separated droplets and long-time DNA enrichment"
P2-52	<a href="#">Yuki Tao</a> , "Cytoplasmic viscoelasticity ages in ATP-depleted cells"
P2-53	<a href="#">Ryo Nakanishi</a> , "Cluster Coalescence Dynamics in Polymer Collapse by Binding Molecules"
P2-54	<a href="#">Hiroaki Ishikawa</a> , "Collective motion of dimers traveling in the minor-axis direction"
P2-55	<a href="#">Christian Vanhille Campos</a> , "Collective self-organisation of mortal filaments: the role of FtsZ treadmilling in bacterial division ring formation"
P2-56	<a href="#">Adam Prada</a> , "Multiple elastic filaments cut the bridge between dividing eukaryotic cells"
P2-57	<a href="#">Jessany Marsden</a> , "Characterisation of Drying Blood Droplets using Drop Shape Analysis"
P2-58	<a href="#">Hiroyuki Kitahata</a> , "Interaction of active rotors driven by the concentration field"
P2-59	<a href="#">Shohei Toyama</a> , "Estimation of Free-Energy Landscape by Molecular Simulations using Interpolation with Higher Order Terms"
P2-60	<a href="#">Ivan Palaia</a> , "Non-conventional colloidal aggregation in bacterial baths"
P2-61	<a href="#">Elissavet Sandaltzopoulou</a> , "Interplay of topology and rheology in the spatial organization of the cytoplasm"
P2-62	<a href="#">Janka Bauer</a> , "Protonuclei in silico: The impact of crowding and confinement on the condensation of intrinsically disordered nuclear proteins"
P2-63	<a href="#">Dario Buonomo</a> , "Exploring how bacterial motility enhances antibiotic resistance: Swarming vs Swimming"
P2-64	<a href="#">Kiyoto Kubo</a> , "Suspension dynamics of active soft swimmers with large deformation"
P2-65	<a href="#">Eoin Kearney</a> , "Coarse grained simulations for passive partitioning of small molecules into cell membranes"
P2-66	<a href="#">Tsutomu Hamada</a> , "Membrane phase separation in response to mechanical stimuli"
P2-67	<a href="#">Yukitaka Ishimoto</a> , "Brownian dynamics simulation of polymer chain with collision and inextensible semiflexible bond for dense chromatin dynamics"
P2-68	<a href="#">Kairi Tomita</a> , "Microrheology of aging p62 bodies emerged by L-L phase separation"
P2-69	<a href="#">David Evans</a> , "Quantifying effective interactions in active Brownian hard disks"
P2-70	<a href="#">Miguel Santana de Freitas Amaral</a> , "Living at Extreme Conditions: Modelling Archaeal Membranes"
P2-71	<a href="#">Ignacio Sanchez Burgos</a> , "Condensates ageing modelled through Molecular Dynamics: Protein structural transitions critically transform the network, connectivity and viscoelasticity of RNA-binding protein condensates."
P2-72	<a href="#">Sophie Ayscough</a> , "The Influence of Cardiolipin in Bcl-2 Regulated Mitochondrial Cell Death"
P2-73	<a href="#">Zhiyuan Zhao</a> , "Non-dilute active particles in pressure-driven channel flows"
P2-74	<a href="#">Dom Corbett</a> , "Active turbulence and spontaneous phase separation in inhomogeneous extensible active gels"
P2-75	<a href="#">Lingyu Meng</a> , "Active random force promotes diffusion in bacterial cytoplasm"
P2-76	<a href="#">Zhiyu Zhang</a> , "Activity tightens polymer knots"
P2-77	<a href="#">Yiyang Ye</a> , "Expansion of Cell Collectives with Pressure-dependent Growth Rate"
P2-78	<a href="#">Saraswat Bhattacharyya</a> , "Phase Separation driven by Active Flows"
P2-79	<a href="#">Aileen Cooney Cooney</a> , "Artificial cells respond to light: triggered content release from synthetic organelles"
P2-80	<a href="#">Rajiblochan Sahoo</a> , "Structure and dynamics of an active polymer inside a nanochannel grafted with polymers"
P2-81	<a href="#">Fumiya Yamawaki</a> , "Study of phase separation of tissue cells using a cell morphology tensor"
P2-82	<a href="#">Pradeep Kumar Yadav</a> , "Effect of activity on bubble phase of active particles in motility-induced phase separation"
P2-83	<a href="#">Benjamin Loewe</a> , "Overcharging active nematics through boundary conditions"
P2-84	<a href="#">Kazuki Sone</a> , "Exceptional non-Hermitian topological edge mode and its application to active matter"
P2-85	<a href="#">Ali Farnudi</a> , "Dynamics of fluid bilayer vesicles: Soft meshes and robust curvature energy discretization"
P2-86	<a href="#">Ayako Yamada</a> , "Microfluidic platform for sedimentation-based trapping of giant unilamellar vesicles under controlled microenvironments for biochemical and biophysical assays"
P2-87	<a href="#">Zuyao Xiao</a> , "Investigating Chemotaxis in Active Colloids through Microfluidic Techniques"



**Topics: Rheology and Non-equilibrium phenomena in Soft Matter**

- 
- P2-88 [Yusheng Lei](#), "Random organization and non-equilibrium hyperuniform fluid on a Sphere"
- 
- P2-89 [Yixin Zhang](#), "Dynamics of single electrolytic nanobubble"
- 
- P2-90 [Miku Hatatani](#), "Spinning motion of a ratchet motor on a vibrating water bed"
- 
- P2-91 [Yohko F. Yano](#), "Periodic Elastic Motion in a Self-Assembled Monolayer induced by Marangoni instability"
- 
- P2-92 [Shunsuke Yabunaka](#), "Thermosmosis of a near-critical binary fluid mixture under preferential adsorption: universal flow properties"
- 
- P2-93 [Masaya Endo](#), "Spreading foam by a rigid plate on a substrate"
- 
- P2-94 [Souta Miyamoto](#), "Friction Reduction of Bidispersed Polymer System in Entangled State"
- 
- P2-95 [Matthew Wade](#), "Preparation of a CaBER Sample Environment and Microfluidic Devices for In-Situ Scattering Measures of Polymer Solutions in Extensional Flow"
- 
- P2-96 [Yusuke Koide](#), "Role of scission in dynamics of surfactant micelles"
- 
- P2-97 [Sungwoo Hong](#), "Neural network extraction of viscoelasticity from AFM indentation measurements"
- 
- P2-98 [Bappaditya Roy](#), "Learning hydrodynamic equations from microscopic Langevin simulations of self-propelled particles dynamics"
- 
- P2-99 [Kojiro Ootoguro](#), "Dynamic pattern formation of fluid induced by precipitation formation in a structured cell"
- 
- P2-101 [Fumiaki Kobayashi](#), "Rheology of a suspension of particles subjected to Quincke rotation"
- 
- P2-102 [Angie Matusova](#), "Molecular Dynamics Simulations of Engine Lubricant Additives"
- 
- P2-103 [Ivan S. Novikau](#), "Morphological signature in magnetic and hydrodynamic response of a magnetic nanogels' suspension"
- 
- P2-104 [Olfa D'Angelo](#), "The manifold rheology of granular fluids"
- 
- P2-105 [Kotaro Oda](#), "Molecular-dynamics study on the stress-thermal rule of polymeric liquids under shear flows"
- 
- P2-106 [Shunsuke Sato](#), "Viscoelastic evaluation of shake-gels composed of silica nanoparticles and poly(ethylene oxide)"
- 
- P2-107 [Ayumi Moteki](#), "Rheological Behavior of Aqueous Suspension of Oxidized Carbon Nanohorn(CNHox)"
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- P2-108 [Shun Imamura](#), "Investigating 3D structures and Rheology of Suspensions Driven by the Quincke Effect with Fully Resolved Hydrodynamics"
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- P2-109 [Alberto Toffano](#), "Temperature- and pressure-dependence of the hydrogen bond network in plastic ice VII"
- 
- P2-110 [Hiroyoshi Nakano](#), "Large-Scale Molecular Dynamics Simulations of Nonequilibrium Long-Range Correlations in Simple Fluids"
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## POSTER SESSION 3: September 7 (Thu) 13:00-15:00

*Topics: Colloidal Soft Matter and Emulsions*

*Glasses, Arrested Soft Matter, Jamming, and Granular Materials*

*Self-assembled Soft Matter*

### *Topics: Colloidal Soft Matter and Emulsions*

P3-1	<a href="#">Baohu Wu</a> , "KWS-X: A Powerful SAXS/WAXS Laboratory Beamline for Soft Matter Structure Characterization"
P3-2	<a href="#">Bin Zheng</a> , "Universality in the dynamics of vesicle translocation through a hole"
P3-3	<a href="#">Takuma Nakajima</a> , "De-emulsification process by combination of microwave irradiation and mixing"
P3-4	<a href="#">Joeri Opdam</a> , "The rich phase behaviour of a simple colloidal sphere/rod mixture"
P3-5	<a href="#">Suravi Pal</a> , "External field induced mixing and demixing of a binary colloid"
P3-6	<a href="#">Yasuya Nakayama</a> , "Finite system size correction in microrheological analysis under periodic boundary conditions: a direct numerical simulation approach"
P3-7	<a href="#">Massimiliano Paesani</a> , "A novel coarse-grained model for deformable nanoparticles"
P3-8	<a href="#">Haruto Iwasaki</a> , "Electric Double-Layer Capacitance of water/alcohol mixture"
P3-9	<a href="#">Kenta Ogawa</a> , "Physics-Informed Gaussian Processes for Stokes Flow Inference"
P3-10	<a href="#">Keiju Suda</a> , "Two-dimensional Crystallization of Bacteriorhodopsin Driven by Lateral Depletion Effect of Lipids: Using Free Volume Theory and Binary Hard Disk Model"
P3-11	<a href="#">Gao Qiong</a> , "Fast crystal growth at ultra-low temperatures"
P3-12	<a href="#">Laura Hetjens</a> , "Post-Modification of polyphenol polyphosphazene colloids as a new way towards advanced biobased flame retardant coatings"
P3-13	<a href="#">Yage Zhang</a> , "Formation of liquid cratering from the impact of liquid marbles on rough solid substrates"
P3-14	<a href="#">Youhei Fujitani</a> , "Diffusiophoresis of a colloidal particle in a near-critical binary fluid mixture"
P3-15	<a href="#">Zhanli Geng</a> , "Dissolved Gas-induced Nanodroplets Formation and Morphology Changes"
P3-16	<a href="#">Saki Kusakabe</a> , "Macroscopic property and microscopic dynamics of high-molecular weight PEO/silica nanocomposites"
P3-17	<a href="#">Joe Bradley</a> , "Sizing multimodal suspensions using differential dynamic microscopy"
P3-18	<a href="#">Raj Tadi</a> , "Compositional Ripening in Water-in-oil Pickering Emulsions"
P3-19	<a href="#">Xuefeng Shen</a> , "Understanding the stability of Pickering emulsions using on-chip microfluidics"
P3-20	<a href="#">Robert F. B. Weigel</a> , "A Density Functional for Hard-Core Patchy Colloids"
P3-21	<a href="#">Tohru Okuzono</a> , "Mechanical response of a charged colloidal particle undergoing surface chemical reactions"
P3-22	<a href="#">Mohd Meraj Khan</a> , "Radiation force and torque on a dielectric Janus particles"
P3-23	<a href="#">Hiroyuki Miki</a> , "Numerical Simulation of Phoretic Motion of Charged Colloidal Particle under a Base Concentration Gradient"
P3-24	<a href="#">Ryosuke Matsuoka</a> , "Power-law relaxation of concentrated colloidal suspensions"
P3-25	<a href="#">Hiroaki Ito</a> , "Hydrodynamic ordering of deformable particles in a quasi-two-dimensional flow"
P3-26	<a href="#">Arash Nikoubashman</a> , "Evaporation-Driven Assembly of Colloidal Supraparticles"
P3-27	<a href="#">Daniel James Williams</a> , "Investigating the toxicity of metal-shell capsules for the delivery of chemotherapeutics with poor aqueous solubility"
P3-28	<a href="#">Anuj Chhabra</a> , "Understanding the role of Ionic Liquid on the DNA chain morphology"
P3-29	<a href="#">Jayant Kumar Dewangan</a> , "Formation of wrinkle pattern in the drying of surfactant-salt droplets"
P3-30	<a href="#">Zhaoxia Niu</a> , "Interplay of consolidation fronts and cracks in drying colloidal coatings and its application in controlling crack pattern formation"
P3-31	<a href="#">Carlo Andrea De Filippo</a> , "Functionalization and anisotropy: the impact on the low-density phase diagram of Janus rods"
P3-32	<a href="#">Sanjoy Khawas</a> , "Modulation of multiscale assembly pattern tuning gold nanorods concentration via evaporative self-assembly"
P3-33	<a href="#">Yuri Chung</a> , "Multicomponent Nanoparticle Contrast Agents for Magnetic Resonance Imaging"
P3-34	<a href="#">Kota Hayashi</a> , "The Assembly of Colloidal Particles with Light-induced Convection from Fiber-based Optical Condensation Module"
P3-35	<a href="#">Veronica McKinny</a> , "Coagulation of Drying Blood Droplets"
P3-36	<a href="#">Mika Matsuo</a> , "Molecular recognition and the free energy barrier caused by entropic effect of solvent molecules"
P3-37	<a href="#">Wei Li</a> , "Virtual Melting in Shear-induced Colloidal Crystal-crystal Transition"
P3-38	<a href="#">Tetsuro Tsuji</a> , "Experimental evaluation of thermally-induced slip flows around a colloidal microparticle"
P3-39	<a href="#">Benjamin T. Lobel</a> , "Non-spherical emulsions as a route to anisotropic microcapsules"
P3-40	<a href="#">Akiko Toyotama</a> , "Crystallization of Microgel Colloids Due to Depletion Attraction"
P3-41	<a href="#">David Fairhurst</a> , "The Ouzo Effect: Adding a Splash of Dynamics to the Oil/Water/Ethanol Phase Diagram"
P3-42	<a href="#">Ryouichi Ishibashi</a> , "Effects of electric double layer repulsion on shear thickening of concentrated suspensions"
P3-43	<a href="#">Mengmeng Li</a> , "Polymorphic crystalline layer at the crystallization growth front"
P3-44	<a href="#">Rajdip Bandyopadhyaya</a> , "Universal Mechanism of Nanoparticle Formation Across Different Length Scales: From Dispersed Drops to Bulk Synthesis"
P3-45	<a href="#">Peng Hua</a> , "Magnetic-field-induced reentrant crystal-hexatic-liquid-solid transition in a 2D binary system"
P3-46	<a href="#">Meenakshi</a> , "Long Range Electrostatic Screening in Zwitterionic liquids"
P3-47	<a href="#">Ahmed Jarray</a> , "Numerical and experimental investigation of the rheological behavior of oil-based capillary suspensions"
P3-48	<a href="#">Thomas Palberg</a> , "Writing in water"

**Topics: Glasses, Arrested Soft Matter, Jamming, and Granular Materials**

- 
- P3-49 [Muhammad Ahmed Hanif](#), "Flow Dynamics of Different Particle Shapes in a Quasi 2D Silo"
- 
- P3-50 [Takeaki Araki](#), "Johari-Goldstein relaxation in model glass systems"
- 
- P3-51 [Akash Ghosh](#), "Coupled dynamical phase transitions in driven disk packings"
- 
- P3-52 [Duc Truyen Dam](#), "Hyperuniformity in disk packings between extremes of order and disorder"
- 
- P3-53 [Taiki Yanagishima](#), "Explaining and Taming Intermittent Devitrification Pathways in Dense Colloidal Glasses"
- 
- P3-54 [Hidemasa Bessho](#), "Unified understanding of nonlinear viscoelasticity near jamming transition density"
- 
- P3-55 [Ujjwal Kumar Nandi](#), "Connecting real glasses to mean-field models: A study of structure, dynamics and thermodynamics"
- 
- P3-56 [Yuki Takaha](#), "Crystallization dynamics of deeply supercooled liquids"
- 
- P3-57 [Shuji Fujii](#), "Microscopic dynamics of adzuki bean paste yielding under oscillatory shear"
- 
- P3-58 [Samuel Poincloux](#), "Flow and deformation of a sponge-like granular media"
- 
- P3-59 [Alexander V. Petrunin](#), "Suppressing crystal formation in soft colloidal suspensions by hollow nanogels"
- 
- P3-60 [Tivadar Pongó](#), "The role of the particle aspect ratio in the discharge of a narrow silo"
- 
- P3-61 [Yusuke Hara](#), "Microrheology of jammed matters"
- 
- P3-62 [Yinqiao Wang](#), "Structural origins of time-dependent elasticity during colloidal gelation"
- 
- P3-63 [Takayuki Narumi](#), "Particle dynamics arrested by internal substances"
- 
- P3-64 [Daisuke S. Shimamoto](#), "Statics and Dynamics of Packed Polydisperse Particles with Power Size Distributions"
- 
- P3-65 [Andraž Gnidovec](#), "Dense packings of geodesic hard ellipses and a sphere"
- 
- P3-66 [Shio Inagaki](#), "Convection of mono-disperse granules in a highly filled rotating drum"
- 
- P3-67 [Seongmin Kim](#), "A second-order granular rheology capturing nonlocal phenomena and secondary flows"
- 
- P3-68 [Oksana Bilous](#), "Controlling of ferrogranular networks using an applied magnetic field"
- 
- P3-69 [Qi Zhang](#), "Surface and bulk melting of colloidal glasses"
- 
- P3-70 [Takeshi Fukumoto](#), "Energy dissipation of a sphere rolling up a granular slope"
- 
- P3-71 [Tomoki Shirai](#), "Diffusional characteristics of a Newtonian Event-Chain Monte Carlo in hard polygon systems"
- 
- P3-72 [Prasad Ranganath Sonar](#), "Turbulent air-jet impact on granular surfaces"
- 
- P3-73 [Qiyuan QIU](#), "Phase Behavior of Ion-Containing Polymers in Polar Solvents"
- 
- P3-74 [Nodoka Inaba](#), "Active glass transition in poly-disperse self-propelled particle systems"
- 
- P3-75 [Ivan Lobzenko](#), "First-principles calculations of atomic stress in CuZr metallic glass under shear strain"
- 
- P3-76 [Yukihiro Tomita](#), "Analysis of point-to-set lengths by 1+d dim replicated liquid theory in large-d limit"
- 
- P3-77 [Hohyeong Kim](#), "Cloisonné Enameling on Stainless Steel with Buffer Layer via Sol-Gel Coating"
- 
- P3-78 [Hajime Yoshino](#), "Glass Transitions and Jamming of Ellipsoids and Patchy Colloids: Exact Mean-field Theory in Large Dimensional Limits"
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## Topics: Self-assembled Soft Matter

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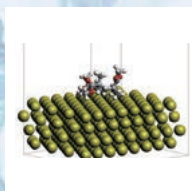
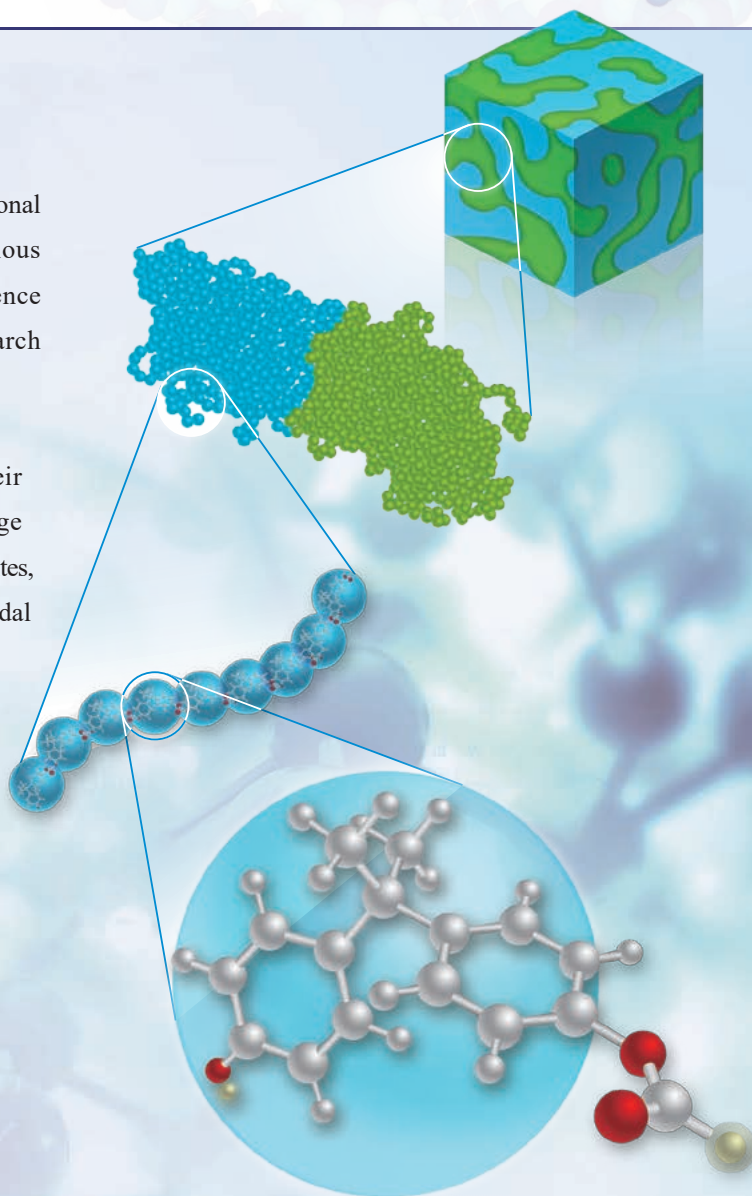
- P3-79 [Huangqing Cui](#), "Dynamic assembly of viscoelastic networks by aqueous liquid-liquid phase separation and liquid-solid phase separation (AqLL-LS PS<sup>2</sup>)"
- 
- P3-80 [Rachel Hendrikse](#), "Using many-body dissipative particle dynamics to predict the properties of surfactant systems"
- 
- P3-81 [Takanori Takiue](#), "Line Tension and Domain Morphology in Adsorbed Monolayer and Lipid Bilayer"
- 
- P3-82 [Shun Ota](#), "Phase Diagram of Ternary Lipid Vesicle including Ceramide"
- 
- P3-83 [Rikuya Ishikawa](#), "Three-dimensional pattern formation during phase separation of a continuously laminated layer"
- 
- P3-84 [Chanseul Kim](#), "DNA-mediated two-dimensional assembly of colloids on substrates"
- 
- P3-85 [Huyen Le](#), "Controlling the distribution of antibacterial photosensitisers in binary colloidal coatings"
- 
- P3-86 [Jitendra Mata](#), "Structural Characterisation of Silk Fibroin Based Hydrogels Using Small and Ultra-Small Angle Neutron Scattering Techniques"
- 
- P3-87 [Chih-Chia Cheng](#), "Synthesis, Characterization and Biomedical Applications of Silver-Containing Metallosupramolecular Nanogels"
- 
- P3-88 [Belhssen Hleli](#), "Dodecaborate-Based Surfactants in Water: Unraveling Unconventional Micellization of Novel Amphiphilic Compounds"
- 
- P3-89 [Le Qiao](#), "Bending and Elasticity of Sphere-patterned Block-Copolymer Films: A SCFT Calculation"
- 
- P3-90 [Anastasiia Fanova](#), "Polysaccharide-based nanogels for the food sector"
- 
- P3-91 [Simon Weir](#), "Self-Assembly of Olympic Gels"
- 
- P3-92 [Kazutoshi Masuda](#), "Mechanics of artificial cells supported by DNA cytoskeleton"
- 
- P3-93 [Stephen Flores](#), "Structure-property and thermodynamic characterization of wormlike micelles from ionic polydisperse surfactant solutions"
- 
- P3-94 [Liyiming Tao](#), "Deposition and tunable alignment of silver nanowires near the contact line of evaporating suspensions"
- 
- P3-95 [James O'Connor](#), "Development of accurate water models for mesoscale simulations of complex fluids using many-body dissipative-particle dynamics and the SAFT-VR Mie equation of state"
- 
- P3-96 [James Meadows](#), "Controlling Polymorph Crystallisation Using Structured Ternary Fluids"
- 
- P3-97 [Takahiro Yokoyama](#), "Self-assembly of cubic Janus colloids under rest and shear"
- 
- P3-98 [Chang Li](#), "One-Pot Self-Assembly of Dual-Color Domes Using Mono-Sized Silica Nanoparticles"
- 
- P3-99 [Harith Gurunarayanan](#), "Colloidal self-assembly of Gold based nanorods into spherical supraparticles for sensing in catalysis"
- 
- P3-100 [Gerome Vancuylenberg](#), "Planar Confined Water Organisation in Lipid Bilayer Stacks of Phosphatidylcholine and Phosphatidylethanolamine"
- 
- P3-101 [Federico Tomazic](#), "Coarse-Grained Simulations of Ligand-Tethered Nano-Plates"
- 
- P3-102 [Tomonari Dotera](#), "Programmable Self-Assembly of Nanoplates into Bicontinuous Nanostructures"
- 
- P3-103 [Ruizhi Yang](#), "Optimization of Fluorescent Core-shell Silica Colloids for Quantitative Real-space Analysis of Single Particles using STED Confocal Microscopy"
- 
- P3-104 [Giulia Mignini Urdaneta](#), "Synthetic extremophiles: synthetic cells responding to changes in high hydrostatic pressure"
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- P3-105 [Camilla Beneduce](#), "Engineering azeotropy to control the self-assembly of colloidal mixtures"
-

Integrated System for Multiscale Modeling and Simulation

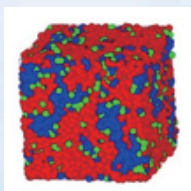
# J-OCTA<sup>®</sup>

J-OCTA is multi-scale simulation software for high functional materials design and life science. Simulators of various scales can be linked on a common platform. Data science functions are also included to support cutting-edge research and development.

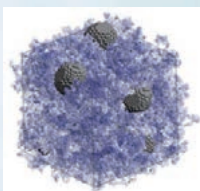
J-OCTA includes several simulation engines and their pre-post functions, as well as AI capabilities. A wide range of applications are targeted, including adhesion, nanocomposites, biomolecules, cross-linked rubber, polymer blends, colloidal dispersions, Li-ion batteries, solar cells, OLEDs, etc.



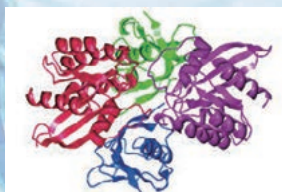
Adsorption



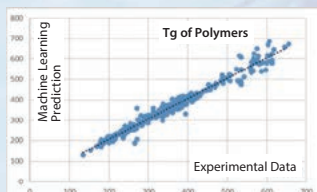
Phase separation



Filler dispersion



Biomolecule



Machine Learning

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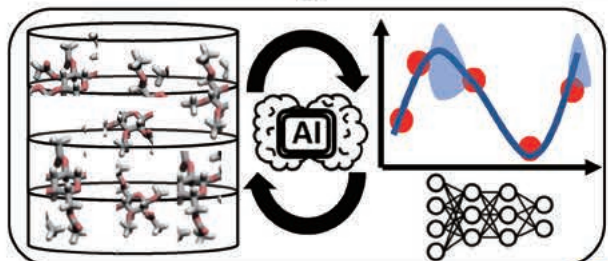
Material

Engineering plastics



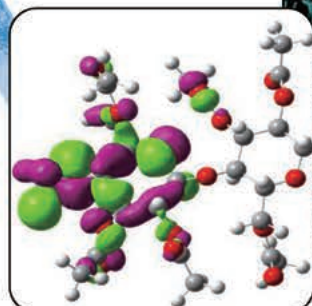
Core Technologies Center iCube

## Accelerate Development with Virtual Lab. using AI and Simulation technologies

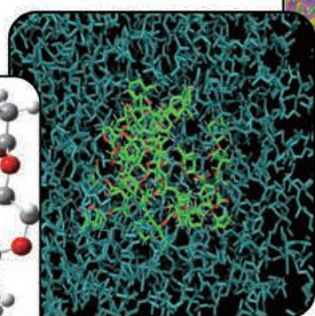


Materials Informatics

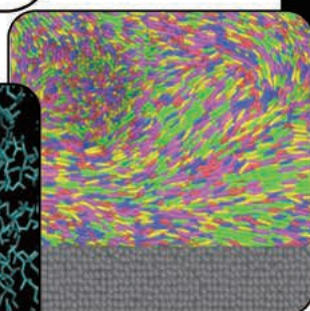
Prediction of material properties



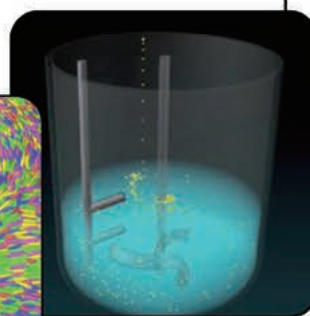
Quantum Chemistry



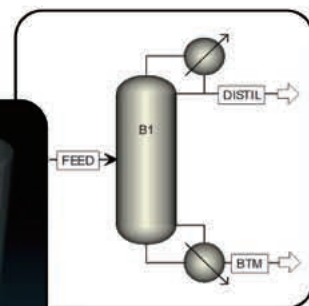
Full-atomistic Molecular Dynamics



Coarse-Grained Molecular Dynamics

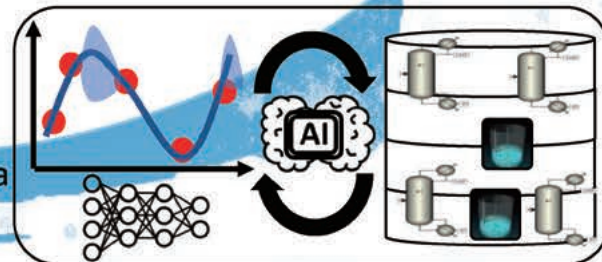


Computer Fluid Dynamics



Process Simulation

Process optimization using characteristic data



Process Informatics

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