



NIMS-MPI workshop on Materials Aspects of Novel Quantum Systems

18th-21st of November 2025

- New Quantum and Functional Materials
- Synthesis & Crystal Growth Techniques
- Properties of New Exotic Materials



MANA Auditorium, NIMS, Tsukuba, Japan

Development of
novel quantum
and functional materials
will serve as a key milestone

towards future innovative devices and green technology. By bringing physicists, chemists and materials scientists together, we aim to exchange fresh ideas of materials design and synthesis, discuss unique properties and functions of new materials, and explore new directions of quantum and functional materials.

This workshop consists of keynote lectures, invited talks and poster presentations. The workshop is open for everyone and free of charge. **Participants with/without poster presentation are highly welcome**, and applicants should contact the organizers.

organizers:

Tomohiro Takayama
(NIMS)

Masahiko Isobe
(MPI-FKF)

Aleksandra Krajewska
(MPI-FKF)

contact:

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Confirmed Speakers

Alannah Hallas

University of British Columbia

Hiroshi Kageyama

Kyoto University

Jun Sung Kim

POSTECH

Takao Mori

NIMS

Andreas Bauer

Technical University of Munich

Alexei Belik

NIMS

Oliver Clemens

University of Stuttgart

Amir Haghighirad

Karlsruhe Institute of Technology

Takayuki Harada

NIMS

Soshi Iimura

NIMS

Gideok Kim

MPI-FKF

Ryutaro Okuma

University of Tokyo

Pascal Puphal

MPI-FKF

Ayako Yamamoto

Shibaura Institute of Technology

and more...



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Day 1 Nov. 18

19:00 **Welcome Dinner**
Free Discussion



Day 2 Nov. 19

8:50-9:00 **Opening**

Takashi Taniguchi (NIMS, Japan)

9:00-10:15 **Session 1**

Alexei Belik (NIMS, Japan)
Kunlang Ji (Kyoto University, Japan)
Masahiko Isobe (MPI-FKF, Germany)

10:15-10:40 **Coffee break**

10:40-12:15 **Session 2**



Alannah Hallas (UBC, Canada)
Tomohiro Takayama (NIMS, Japan)
Sungkyun Choi (IBS-CINAP, South Korea)

12:15-13:30 **Lunch**

13:30-15:30 **Session 3**



Takao Mori (NIMS, Japan)
Yoshihiko Okamoto (ISSP University of Tokyo, Japan)
Ayako Yamamoto (Shibaura Institute of Technology, Japan)
Takayuki Harada (NIMS, Japan)

15:30-15:55 **Coffee break**

15:55-17:10 **Session 4**

Björn Wehinger (ESRF, France)
Aleksandra Krajewska (MPI-FKF, Germany)
Aly Abdeldaim (Diamond Light Source, UK)

17:15-18:00 **Lab Tour**

18:00

Reception
(Namiki Cafeteria)
Free Discussion

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Day 3 Nov. 20

9:00-10:15 **Session 5**

Gideok Kim (MPI-FKF, Germany)

Amir-Abbas Haghighirad (KIT, Germany)

Andrius Pakalniskis (PSI, Switzerland)

10:15-10:40 **Coffee break**

10:40-12:15 **Session 6**



Hiroshi Kageyama (Kyoto University, Japan)

Soshi Iimura (NIMS, Japan)

Oliver Clemens (University of Stuttgart, Germany)

12:15-13:30 **Lunch**

13:30-15:30 **Session 7**



Jun Sung Kim (Postech, South Korea)

Ryutaro Okuma (ISSP University of Tokyo, Japan)

Mohamed Oudah (UBC, Canada)

Seongjoon Lim (MPI-FKF, Germany)

15:30-17:00 **Poster Session**

17:00-18:40 **Session 8**

Noriki Terada (NIMS, Japan)

Kristin Kliemt (Goethe-University Frankfurt, Germany)

Denise Christovam (MPI-FKF, Germany)

Fusako Kon (Hokkaido University, Japan)

19:30 **Conference Dinner**
(Tenryu, Tsukuba)
Free Discussion

Program

Day 4 Nov. 21

9:00-10:15 **Session 9**

Andreas Bauer (Technical University of Munich, Germany)

Akiko Kikkawa (RIKEN, Japan)

Monica Ciomaga Hatnean (PSI, Switzerland)

10:15-10:40 **Coffee break**

10:40-11:55 **Session 10**

Pascal Puphal (MPI-FKF, Germany)

Guratinder Kaur (University of Edinburgh, UK)

Gørn Nilsen (ISIS Neutron and Muon Source, UK)

11:55

Closing
Lunch
Excursion
Free Discussion



Venue

Auditorium of the
WPI-MANA Building
(The NAMIKI Site), NIMS



Inquiry

Tomohiro Takayama, Team Leader
(MANA, NIMS)

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