

**3rd Circular on
Asia-Pacific Conference on Condensed Matter Physics 2021
December 1st to 3rd, 2021
and
Asia-Pacific Condensed Matter Physics Week**

The AC²MP2021 scientific program has been released on the web site. We have already more than 200 registrations of participants. Participation fee is free of charge, but you need to register via the [conference web site](#) to have the access to the online conference URL. Please join to this historical event in condensed matter physics in Asia-Pacific area. Besides, if you are not a member of AAPPS-Division of Condensed Matter Physics, please apply the membership (<http://www.aapps-dcmp.org/>).

Specialty of Conference

1. *Tutorial lectures on current topics*
2. *Keynote talks by the leading scientists*
3. *Session dedicated for young invited speakers*
4. *Combination of short oral talks and interactive discussions*
5. *Free participation fee*

Invited Speaker list and Titles of Talks

*Some of titles are tentative

Tutorials

Manish Jain	<i>GW Calculations</i>
Eun-Gook Moon	<i>Quantum spin liquid</i>
Masao Ogata	<i>Dirac electrons in solids</i>

Keynotes

Xiangang Wan	<i>Dictionary of topological materials, computational physics</i>
Arindam Ghosh	<i>Thermoelectricity of correlation states in twisted bilayer graphene</i>
Hiroaki Kusunose	<i>Cross-correlated phenomena viewed from electronic multipoles</i>
Yuanbo Zhang	<i>2D magnetic, topological and superconducting materials</i>
Hyeonsik Cheong	<i>Optical Spectroscopy of Antiferromagnetic 2-Dimensional van der Waals Materials</i>
Li-Chyong Chen	<i>Atomically-designed and surface probing of selective two-dimensional nanomaterials as photo-catalysts for CO₂ reduction to solar fuels</i>
Umesh Waghmare	<i>Ferroelectricity at Ultimately Small Length Scales</i>

Guang-Yu Guo *Bulk photovoltaic effect in 2D semiconductors and 3D topological semimetals*
Hyunwoo Lee *Orbital Hall effect and orbital dynamics*
Ryo Shimano *Ultrafast control of symmetry broken states in solids by terahertz pulse*

Invited Speakers

Bohm Jung Yang *Topology of acoustic phonons and anomalous thermal responses*
Tse-Ming Chen *Strain engineering of 2D materials*
Keun Su Kim *Pseudogap in a crystalline insulator doped by disordered metals*
Rie Umetsu *Electronic structures of Heusler alloys as functional magnetic material*
Huiqian Luo *Neutron study of CMP*
Aditi Sen De *Quantum Thermal Machines*
Yueh-Nan Chen *Benchmarking quantum state transfer in the cloud*
Suvankar Chakraverty *Unique Magnetotransport in $KTaO_3$ based conducting devices*
Sungjae Cho *Low-voltage transistors and diodes; Extending the road beyond CMOS*
Pabitra Nayak *Organic Semiconductors*
Takeshi Kondo *Observation of small Fermi pockets in high- T_c cuprates*
Ming-Wen Chu *Seeing Charge Density Waves at the Atomic Scale by Cryogenic Scanning Transmission Electron Microscopy*
Yanwu Xie *Oxide device and interface, interfacial superconductivity*
Wentao Zhang *Ultrafast laser ARPES on CDW etc.*
Hideaki Sakai *Spin-valley coupling and quantum transport phenomena in polar magnetic Dirac materials*

Invited Speakers for Session dedicated for Young Researchers

Sudipta Dubey *2D Materials*
Jieun Lee *Optical imaging of spin orientations in 2D materials*
Sutapa Roy *Light-activated Janus colloids suspended in a solvent*
Chia-Lung Hsieh *Nanoscale organization and dynamics of biological membranes revealed by high-speed interferometric scattering microscopy*
Toshihiro Nomura *Quest for a magnetic-field-induced liquid-liquid transition of oxygen by ultrasound measurements in megagauss region*
Xi Lin *Ultra low temperature and high magnetic field study*
Minsoo Kim *Electron quantum transport in twisted multi-layers of graphene*

Ming-Hao Liu	<i>Quantum Electronic Transport in Graphene Superlattice Systems</i>
Jong Mok Ok	<i>Correlated Oxide Dirac Semimetal in the Extreme Quantum Limit</i>
Vidya Praveen Bhallamudi	<i>NV Centers in Nanodiamonds</i>
Wanjun Jiang	<i>Skymion</i>
Rina Takagi	<i>Square and rhombic lattice of magnetic skyrmions in a centrosymmetric itinerant magnet</i>
Ssu-Yen Huang	<i>Manipulation of pure spin current in 3D magnets</i>
Tao Wu	<i>NMR studies on various superconductors and CDW systems</i>
Nayuta Takemori	<i>Theoretical investigation on superconducting quasicrystals</i>
Koichiro Ienaga	<i>Thermoelectric study of the quantum vortex liquid state in a two-dimensional amorphous superconductor</i>

Topics of Conference

Scientific sessions cover a wide range of condensed matter physics, including the following subjects—the organizer welcomes varieties of other subjects and interdisciplinary topics not listed below.

- A: Strongly Correlated Electron Systems, Superconductivity, Quantum Materials
- B: Topological Materials and Physics, 2D Materials, Semiconductors
- C: Spintronics, Device Physics, Functional Materials
- D: Magnetic and Ferroelectric Materials
- E: X-ray and Neutron, Muon for Condensed Matter Physics
- F: Extreme condition, High Pressure Physics, High Magnetic Fields, Ultra-low temperature
- G: Optical Physics, Laser Spectroscopy
- H: Molecular Materials, Soft-matter, Complex System, Biomaterial
- I: Quantum Information
- J: Computational and Theoretical Physics

Web site: <http://www.aapps-dcmp.org> Meeting/Event-Conference

Registration Site: https://www.apctp.org/theme/d/html/activities/activities01-1_read.php?id=1600

Programs Info **Registration** List of Participants

Gender	<input checked="" type="radio"/> M <input type="radio"/> F	
Name	<input type="text" value="firstname"/> <input type="text" value="lastname"/>	<input type="text" value="middlename"/>
Nationality	<input type="text" value="Choose your country"/>	
Affiliation	<input type="text"/>	
Location	<input type="text" value="Choose your country"/>	
Status	<input type="text" value="Status"/>	
E-mail	<input type="text"/>	
Password	<input type="text"/>	<input type="text" value="try again"/>
<input type="button" value="SUBMIT"/>		

If you cannot see the English page, first click the English in the top. When you will be guided to the HOME page of the APCTP, please go back to the registration page. Or, select one of three tabs shown at left, then it will switch to English.

Participating Events

To be announced

Organizer

The division of condensed matter physics in AAPPS

Important Dates

~~August 30, 1st circular out~~

~~September 10th, Website open for presentation submission~~

~~October 16th, Submission of presentation close(Extended)~~

~~October 30th, Speaker Decisions~~

~~October 30th, Submission of Poster presentation close~~

November 8th, Final program

Organizing Committee

J.-G. Park (Seoul National Univ.)

H. Nojiri (Tohoku Univ.)

Y.-P. Chiu (National Taiwan Univ.)

L. Lu (The Institute of Physics, CAS)

T. Sakai (Univ. of Hyogo)

S. M. Yusuf (Bhabha Atomic Research Centre)

K.-Y. Choi (Sungkyunkwan Univ.)

F.-C. Chuang (National Sun Yat-Sen Univ.)

V. Nanal (Tata Institute of Fundamental Research)

H.-H. Wen (Nanjing Univ.)

Program Committee

H. Nojiri (Tohoku Univ.)

A. V. Gopal (Tata Institute of Fundamental
Research)

T.-H. Kim (POSTECH)

Y. Matsuda (Univ. Tokyo)

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D. Feng (Univ. of Science and Technology of
China)

Y. J. Kao (National Taiwan Univ.)

C.-W. Luo (National Yang-Ming Chiao-Tung
Univ.)

S. Narasimhan (Jawaharlal Nehru Centre for
Advanced Scientific Research)

S. Zhou (Tsinghua University)

Local Organizing Committee

Secretary

Web site

Online conference

K.-Y. Choi (Sungkyunkwan Univ.)

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