


# 12th APCTP-IACS-KIAS Joint Conference on Emergent Phenomena in Novel Oxide Materials and Low Dimensional Systems

- Date: **November 29(Mon.) - 30(Tue.), 2021**
- Venue: **ZOOM**
- ZOOM Link: [https://us06web.zoom.us/join/joinMeeting?z=ErceupzotE9bZGkySj6ITcGqeeni\\_wL-J](https://us06web.zoom.us/join/joinMeeting?z=ErceupzotE9bZGkySj6ITcGqeeni_wL-J)
- ZOOM ID: 856 6269 1792 / Password: 0000
- Website: <https://sites.google.com/snu.ac.kr/2021-apctp-iacs-conference>

## APCTP Conference

### 12<sup>th</sup> APCTP-IACS-KIAS Joint Conference on Emergent Phenomena in Novel Oxide Materials and Low Dimensional Systems

<b>PERIOD</b>	November 29 (Mon.) – 30 (Tue.), 2021		
<b>VENUE</b>	Online Workshop Using Zoom		
<b>OVERVIEW</b>	<p>Novel and emergent materials have attracted major interest in condensed matter research because of their wide-ranging physical properties that are not only important for basic research but also for various applications. The major purpose of this conference is to present and discuss about cutting-edge theoretical work on novel and emergent materials that will include transition metal oxides, spin-orbit materials, topological insulators, novel iron based superconductors, and two-dimensional materials. In particular, Graphene and topological insulators constitute a novel class of materials in condensed matter physics whose low-energy quasiparticles obey Dirac-like, rather than Schrodinger like, equations. The main purpose of the present meeting will be to discuss about recent progresses in theory (both ab-initio as well as many-body approaches) to understand these novel materials. The conference will also have special talks by leading experimentalists in the Asia Pacific region working in the area mentioned above.</p>		
<b>TOPIC</b>	<p>Frustrated magnetism including spin-orbit induced magnetism and spin liquids                  2D system including 2D magnetism                  Emergent materials (Topological materials, Novel superconductors)</p>		
<b>ORGANIZERS</b>	<p>Jaejun Yu (Seoul National Univ., Korea, Chair)    Indra Dasgupta (IACS, India, Co-Chair)                  Young-Woo Son (KIAS, Korea, Co-chair)         D. D. Sarma (IISc, India)</p>		
<b>SPEAKERS</b>	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">                     Kedar Damle (TIFR Mumbai)                      Tanusri Saha Dasgupta (SN Bose Centre, Kolkata)                      Subhadeep Dutta (IACS, Kolkata)                      Arnab Sen (IACS, Kolkata)                      Goutam Sheet (IISER Mohali)                      Arun Paramekanti (U of Toronto, Canada)                 </td> <td style="width: 50%; border: none;">                     Umesh Waghmare (JNCASR, Bangalore)                      Kee Hoon Kim (SNU)                      Jun Sung Kim (POSTECH)                      Kwon Park (KIAS)                      Je-Geun Park (SNU)                      Jaehoon Park (POSTECH)                      Young-Woo Son (KIAS)                      Chan-Ho Yang (KAIST)                 </td> </tr> </table>	Kedar Damle (TIFR Mumbai) Tanusri Saha Dasgupta (SN Bose Centre, Kolkata) Subhadeep Dutta (IACS, Kolkata) Arnab Sen (IACS, Kolkata) Goutam Sheet (IISER Mohali) Arun Paramekanti (U of Toronto, Canada)	Umesh Waghmare (JNCASR, Bangalore) Kee Hoon Kim (SNU) Jun Sung Kim (POSTECH) Kwon Park (KIAS) Je-Geun Park (SNU) Jaehoon Park (POSTECH) Young-Woo Son (KIAS) Chan-Ho Yang (KAIST)
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<b>WEBSITE</b>	<a href="https://us06web.zoom.us/meeting/register/tZErceupzotE9bZGkySj6ITcGqeeni_wL-J">https://us06web.zoom.us/meeting/register/tZErceupzotE9bZGkySj6ITcGqeeni_wL-J</a>		
<b>ZOOM WEBINAR</b>	<ol style="list-style-type: none"> <li>1) Please register through the website</li> <li>2) registrants will receive a ZOOM link before the meeting</li> <li>3) Join the webinar with your full name and email account</li> </ol>		



아시아태평양지역물리학회

The APCTP is supported by the Korean Government through the Education and Technology Promotion Fund and Lottery Fund and through the main local university research facilities.

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