

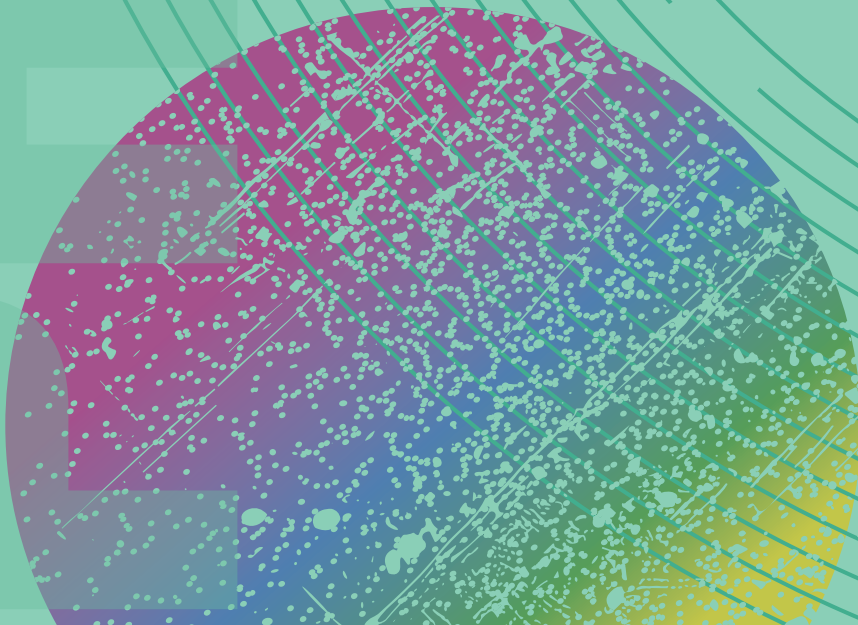


apctp

1996 - 2026

asia pacific center for
theoretical physics

apctp





Introduction

The Asia Pacific Center for Theoretical Physics (APCTP), Korea's first and only international research institute, was established in June 1996, with Professor C. N. Yang serving as its founding President.

As an international non-governmental organization, its current 20 member countries/regions include Australia, Beijing, Cambodia, Canada, Hong Kong, India, Indonesia, Japan, Kazakhstan, Korea, Kyrgyzstan, Lao PDR, Malaysia, Mongolia, Philippines, Singapore, Taipei, Thailand, Uzbekistan, and Vietnam.

An increasing number of countries in the Asia-Pacific region are expected to join the Center in the near future.

Vision

As an international organization in the field of theoretical physics, the APCTP aims to lead basic science in the Asia Pacific region

Mission

To engage and support young researchers while strengthening their research capabilities
To establish a leading scientific hub for the theoretical physics community in the Asia-Pacific region

Organization Chart



Chairperson of the Board
Kong-Ju-Bock LEE



President
Misao SASAKI



Executive Director
Jae-Hyung JEON

Board of Trustees

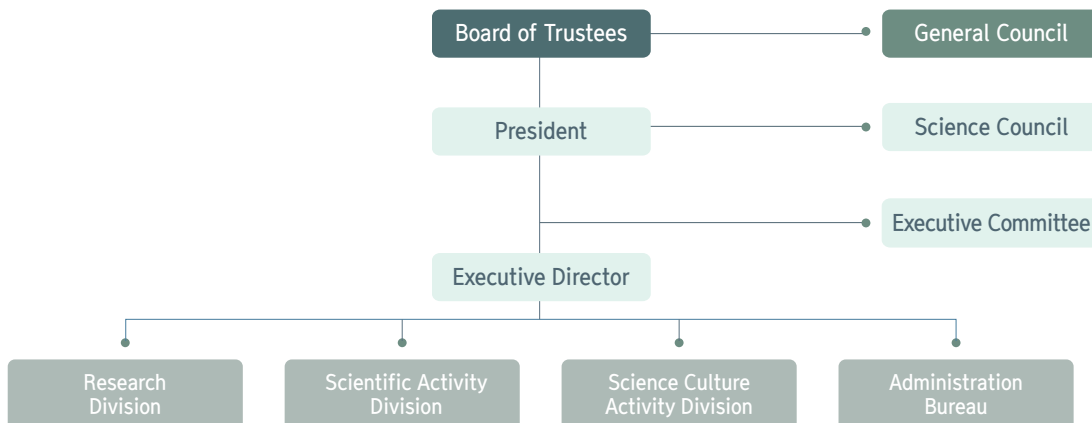
17 Trustees including Chairperson Kong-Ju-Bock LEE and President Misao SASAKI

General Council

Representatives from 20 member countries/regions

Science Council

9 world-renowned scholars



Key Milestones



Inauguration Conference of APCTP



APCTP 10th Anniversary



MPG-APCTP-POSTECH Agreement



APCTP 20th Anniversary



Indonesia Joins the APCTP as a Member Country



AAPPS Bulletin



Global Cooperation Program Launch

- 1993. 02 Formation of the International Planning Committee (IPC)
- 1994. 05 IPC recommends Korea as the host of the APCTP
- 11 Association for Science Cooperation in Asia (ASCA) endorses the proposal to host the APCTP in Korea
- 1995. 09 UNESCO PAC, IUPAP, and AAPPS endorse the proposal for APCTP
- 1996. 06 Inauguration Conference and establishment of the APCTP
- 11 The President of Korea supports the APCTP at the APEC Science Minister's Meeting
- 1997. 03 The Board appoints Professor C. N. YANG (1957 Nobel Laureate for Physics) as the 1st President and Chairperson
- 04 Registration of the APCTP
- 2001. 01 Activity-Financing Contract between UNESCO and APCTP
- 03 Professor Akito ARIMA appointed as the 2nd, 3rd chairperson
- 08 Relocation of the APCTP Headquarters to the POSTECH campus in Pohang
- 2004. 04 Professor Robert B. LAUGHLIN (1998 Nobel Laureate for Physics) appointed as the 2nd president
- 2005. 10 Launch of the APCTP Science Webzine, 「Crossroads」
- 12 Professor NGUYEN V. Hieu elected as the 4th, 5th chairperson
- 2006. 11 APCTP 10th Anniversary Ceremony / LAO PDR and Mongolia become new members
- 2007. 04 Professor Peter FULDE appointed as the 3rd President
- 2008. 03 India becomes a new member
- 06 Launch of Junior Research Group (JRG) Program
- 2010. 04 Professor Won NAMKUNG elected as the 6th chairperson
- Professor Peter FULDE reappointed as the 4th president
- 2012. 03 Uzbekistan becomes a new member
- 2013. 07 Professor Seunghwan KIM appointed as the 5th president
- 11 Professor Paul A. PEARCE appointed as the 7th chairperson
- Kazakhstan becomes a new member
- 2014. 04 Reconnected with APEC PPSTI as an APEC Endorsed Institute
- 2015. 06 Professor Bum-Hoon LEE appointed as the 6th president
- 2016. 03 APCTP 20th Anniversary Ceremony
- 06 Canada becomes a new member
- 12 AAPPS Headquarters established
- 2017. 11 Professor Noboru KAWAMOTO appointed as the 8th chairperson
- Professor Yunkyū BANG appointed as the 7th president
- 2019. 08 Kyrgyzstan becomes a new member
- 11 Professor Noboru KAWAMOTO appointed as the 9th chairperson
- Professor Yunkyū BANG appointed as the 8th president
- 2020. 04 Launch of Senior Advisory Program (SAG) Program
- 2022. 11 Professor Noboru KAWAMOTO appointed as the 10th chairperson
- Professor Yunkyū BANG appointed as the 9th president
- 2023. 01 Launch of APCTP Associate Fellow Program
- 06 「AAPPS Bulletin」 indexed in Scopus
- 08 Indonesia becomes a new member
- 2024. 01 Launch of Global Cooperation Program
- 05 Cambodia becomes a new member
- 07 「AAPPS Bulletin」 indexed in Emerging Sources Citations Index (ESCI)
- 2025. 04 Professor Doochul KIM appointed as the 11th chairperson
- Professor Misao SASAKI appointed as the 10th president
- 06 「AAPPS Bulletin」 received an IF 5.9
- 2026. 03 Professor Kong-Ju-Bock LEE appointed as the 12th chairperson
- 04 Hong Kong becomes a new member

In-house Research Programs

Junior Research Group (JRG)

The APCTP collectively supports and funds outstanding mid-career physicists' inspirational ideas and their research projects. Each group leader can organize a research group and run it independently. All JRGs have successfully produced outstanding research results, making significant contributions to physics community and beyond.

JRG - Group Leader

- | | |
|--|--|
| · Magnetized Plasma Physics and Astrophysics – Prof. Young Dae YOON | · Non-Hermitian Physics – Prof. Zhesen YANG |
| · Thermodynamics of Microscopic Nonequilibrium Systems – Prof. Jong-Min PARK | · Quantum Information, Black Holes, and Holography – Prof. Hyun-Sik JEONG |
| · Scattering Amplitude and Precision Collider Phenomenology – Prof. Heribertus Bayu HARTANTO | · Non-Lorentzian Structures in Gravity and Quantum Matter – Prof. Patricio SALGADO-REBOLLEDO |
| · Quantum Matter Theory – Prof. Kyoung-Min KIM | · Particle Physics Phenomenology – Prof. Shohei OKAWA |

Alumni JRG - Group Leader

- | | |
|--|---|
| · Condensed Matter & Field Theory – Prof. Xin WAN | · Gauge/Gravity Duality and String Theory – Prof. Chanyong PARK |
| · Multi-Scale Modeling – Prof. Xin ZHOU | · Particle Physics and the Early Universe – Prof. Chang-Sub SHIN |
| · String Theory in Strongly Interacting System – Prof. Youngman KIM | · Classical and Quantum Theory of Gravity – Prof. Dong-han YEOM |
| · Loop Quantum Gravity and the Small Scale Structure of Space-time – Prof. Hanno SAHLMANN | · Many-body Theory and Correlated Systems – Prof. Alireza AKBARI |
| · Cooperative Phenomena in Correlated Electron Systems – Prof. Tetsuya TAKIMOTO | · Quantum Information and Many-body Theory – Prof. Jaeyoon CHO |
| · Quantum Phase Transitions in Strongly Correlated Electron Systems – Prof. Ki-Seok KIM | · Supergravity and String Theory – Prof. Eoin O COLGAIN |
| · Astro-Particle Physics and Cosmology – Prof. Ki Young CHOI | · Statistical Physics and Complex Dynamics – Prof. Hang-Hyun JO |
| · Physical Cosmology – Prof. Aman SHAFIELOO | · String Theory and Quantum Geometry – Prof. Dongmin GANG |
| · Ultracold Atom Gases – Prof. Gentaro WATANABE | · Quantum Field Theory and String Theory – Prof. Jaewon SONG |
| · Phenomenology of New Physics in Dark Matter Searches and Collider Experiments – Prof. Myeonghun PARK | · Statistical Physics of Ecology and Evolution – Prof. Hyejin PARK |
| · Biological and Soft Matter Theory – Prof. YongSeok JHO | · Non-equilibrium Many-body Physics – Prof. Ryo HANAI |
| · Emergent Dynamics of Complex Living Systems – Prof. Pan-Jun KIM | · Electronic Structure and Magnetism – Prof. Igor DI MARCO |
| · Design Principles of Cellular Networks – Prof. Junghyo JO | · Physics beyond the Standard Model and its Phenomenology – Prof. Hiroshi OKADA |
| · Generation and Evolution of Cosmic Structure – Prof. Jinn-Ouk GONG | · Physics of Matter at Non-equilibrium – Prof. Yuji HIRONO |
| · Interfaces and Defects in Strongly Coupled Matter – Prof. Matthew ROBERTS | · Black Holes, Quantum Gravity and String Theory – Prof. Imtak JEON |
| · String Theory and Quantum Chromodynamics – Prof. Matti JARVINEN | · Holography and Black Holes – Prof. Junggi YOON |
| | · Observational Cosmology – Prof. Stephen APPLEBY |
| | · Dualities in String/M-theory and Quantum Gravity – Prof. Kanghoon LEE |

Young Scientist Training Program (YST)

With the stimulating and active scientific environment, a variety of scientific activities and in-house researchers (JRGs), the Center gives an opportunity to Young Scientist Under 40 (Postdoctoral Researchers) physicists (scientists) from the Asia-Pacific region to increase their research capability.



APCTP Associate Fellow Program

To appoint and host alumni and leading scientists, promoting collaborative research with in-house JRG and YST researchers, alongside academic programs, public lectures, and strengthening international research networks.



APCTP Internship Program

To nurture the next generation of researchers in physics-related fields through research mentoring led by JRG leaders—equipping outstanding students with cutting-edge research skills and early pathways to the leading global universities and research institutes.



Academic and Scientific Activities

The APCTP aims to advance the basic science through academic activities and international cooperation that connects the world and lead trends in physics research.

Academic Programs

The APCTP provides an academic platform to discuss frontier research topics and promotes international collaborations. In-depth studies and intensive discussions on particular topics are also actively performed on this platform by small groups of Korean and non-Korean physicists. Every year, approximately 5,000 researchers participate in the conferences, workshops, schools, or long-term academic programs.

Global Cooperation Program

Through collaboration with the world's leading research institutions, we promote international joint research and conferences while strengthening ROK's R&D and scientific and technological competitiveness.



Publication of the AAPPS Bulletin

In order to develop the AAPPS Bulletin as a representative journal of the Asia-Pacific region, the Center which is the headquarters of the Association of Asia Pacific Physical Societies (AAPPS) publishes influential papers in cooperation with the AAPPS and a global publishing network. AAPPS Bulletin was indexed in Scopus since June 2023 and in ESCI since July 2024, and achieved its first Impact Factor of 5.9 on June 2025.



Strategic Agenda Development in Science Diplomacy

In pursuit of strengthening the global science, technology and innovation (STI) network and fostering scientific cooperation with non-governmental organizations, the Center has collaborated with international organizations such as APEC, and jointly developed global STI agendas and solutions.



Call for Programs

The APCTP is an international scientific organization which pursues the highest quality research in all areas of theoretical physics and promotes cooperation among scientists from its member countries or Asia-Pacific regions and beyond. With these goals, the APCTP calls for proposals for programs every year. To apply for the program, please refer to the announcement on the website at <http://apctp.org>.

Science Outreach Program Website <https://crossroads.apctp.org>

The APCTP has been organized a variety of initiatives to promote scientific culture activities to communicate with the general public and strengthen scientific ties among scientists in the Asia-Pacific region. Through various programs that all ages can participate in, the APCTP fulfills social responsibilities and contributes to the promotion of a scientific culture.



APCTP Science Webzine 「Crossroads」



Author Lecturer Series
for the APCTP Best Science Books



APCTP Pohang Family Science Festival

International Cooperation

In cooperation with member countries/regions and institutions, APCTP has led research excellence in the field of theoretical physics and would like to share the excitement and wonder of science with the general public.

20 Member Countries/Regions (Member Entities) • 12 Member Institutions • 36 Partnership Institutions

Australia (AIP) | Beijing (CPS) | Cambodia (RUPP) | Canada (CAP) | Hong Kong (PSHK) | India (IACS) | Indonesia (BRIN) | Japan (IPNS/KEK) | Kazakhstan (NAS) | Korea (NRF) | Kyrgyzstan (NAS KR) | Lao PDR (RIS-STEAM) | Malaysia (MIP) | Mongolia (MAS) | Philippines (NRCNP) | Singapore (IAS) | Taipei (AS) | Thailand (SUT) | Uzbekistan (UAS) | Vietnam (VAST)

● Member Entities & Member Institutions ● Partner Institutions



12 Member Institutions

Australia (ANZAMP, MATRIX) | Indonesia (UI) | Japan (ISSP, RCNP, RESCEU, RNC/RIKEN, YITP) | Philippines (NIP) | Thailand (CU, KU, NARIT)

Partner Institutions | 30 MOUs with 36 Institutions

- SCS (State Committee of Science, Ministry of Education and Science, Republic of Armenia, Armenia)
- ITP, CAS (Institute of Theoretical Physics, Chinese Academy of Sciences, Beijing)
- IOP, CAS (The Institute of Physics, Chinese Academy of Sciences, Beijing)
- ISSP (Institute for Solid State Physics, University of Tokyo, Japan)
- KITS (Kavli Institute for Theoretical Sciences, Beijing)
- INP (The Institute for Nonperturbative Physics, Nanjing University, Beijing)
- PIMS (The Pacific Institute for the Mathematical Sciences, Canada)
- NBIA (Niels Bohr International Academy, Denmark)
- MPI-PKS (Max Planck Institute for Physics of Complex Systems, Germany)
- INPP (Institute of Nuclear & Particle Physics of the National Centre for Scientific Research "Demokritos")
- IPM (Institute for Research in Fundamental Sciences, Iran)
- ICTP (The International Center for Theoretical Physics, Italy)
- ECT* (The European Centre for Theoretical Studies in Nuclear Physics and Related Areas, Italy)
- YITP (Yukawa Institute for Theoretical Physics, Kyoto University, Japan)
- RCNP (Research Center for Nuclear Physics, Japan)
- IPNS/KEK (Institute of Particle and Nuclear Studies of High Energy Accelerator Research Organization, Japan)
- INP RK (Institute of Nuclear Physics, Kazakhstan)
- IETP (Scientific Research Institute of Experimental and Theoretical Physics, Kazakhstan)
- IBS (Institute For Basic Science, Korea)
- KPS (Korean Physical Society, Korea)
- CTP (Center for Theoretical Physics Seoul National University, Korea)
- NAS KR-IOP (Academician J. Jeonbaev Institute of Physics of the National Academy of Science of the Kyrgyz Republic, Kyrgyzstan)
- JINR (The Joint Institute for Nuclear Research, Russia)
- IFT (The Institute for Theoretical Physics UAM-CSIC, Spain)
- NORDITA (The Nordic Institute for Theoretical Physics, Sweden)
- NCTS (National Center for Theoretical Science, Taipei)
- TheP (The Thailand Center of Excellence in Physics, Thailand)
- NUUz (National University of Uzbekistan named after Mirzo Ulugbek, Uzbekistan)
- IOP, VAST (The Institute of Physics, Vietnam Academy of Science and Technology, Vietnam)
- AAPPS (Association of Asia Pacific Physical Society)
- IUPAP (International Union of Pure and Applied Physics)
- Indonesian Physical Society
- National University of Laos
- Myanmar Physical Society
- Mongolian Physical Society
- Vietnamese Physical Society

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Hogil Kim Memorial Bldg 501

VISIT the APCTP

How to reach APCTP

① Use the Navigation

| Hongil Kim Memorial Bldg, POSTECH

② From Pohang airport

| By taxi : 30 minutes

③ From Pohang station (KTX)

| By intercity bus : 55 minutes

| By intercity bus : 40 minutes to 1 hour

• Bus no. 305 : Pohang station (KTX)

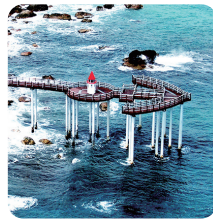
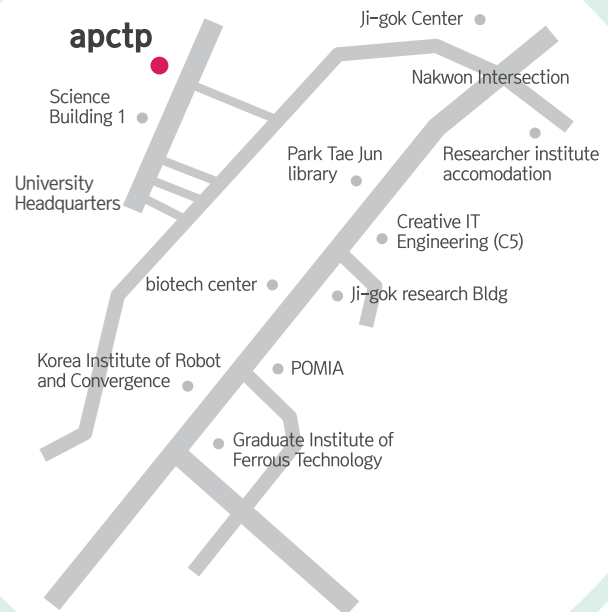
to National Health Insurance Corporation

▶ Tranfer bus no. 207 : National Health
Insurance Corporation to POSTECH

④ From Pohang Express Bus Terminal and Pohang Intercity Bus Terminal

| From Pohang Intercity Bus Terminal : 10 minutes

| From Pohang Express Bus Terminal : 20 minutes



APCTP Facilities

The APCTP is equipped with excellent research and visiting infrastructures on the campus of POSTECH located in Pohang, Korea. It provides visitor offices, lecture and meeting halls, easy internet access, and accomodations in quiet, friendly environments.





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Promotion Fund and the Lottery Fund, and works to enhance public value through its activities.

