

# CENTER FOR THEORETICAL PHYSICS OF COMPLEX SYSTEMS

## International Workshops

**May 20 – 24, 2019**  
*Spintronics and Valleytronics  
of Two-dimensional Materials*

**Jun. 17 – 21, 2019**  
*Recent Advances  
in Topological Photonics*

**Aug. 26 – 28, 2019**  
*Computational Approaches  
to Magnetic Systems*

**Oct. 14 – 18, 2019**  
*Frustrated Magnetism*

## Advanced Study Groups

**Feb., Aug., Nov. 2019**  
*Functional Spin-Active  
Mesoscopic Weak Links*

## 2019 Announcements

Call for **proposals for Advanced Study Groups and International Workshops** in the broadly defined field of theoretical physics of complex systems

Applications for programs in 2021 should be submitted preferably by **March 2020**

## Advanced Study Groups & International Workshops

Advanced Study Groups (4-10 members) are 1-3 months long programs designed to foster intensive collaboration between outstanding scientists and young researchers in residence. Each group consists of several scientists headed by a Principal Investigator (PI). The research work will focus on modern and important topics in the broadly defined field of the theoretical physics of complex systems. With the full organizational support of the PCS Visitor Program, the group will attract further shorter-term visitors for seminars, lectures, discussions, and other meetings.

International workshops are on frontier and rapidly developing subjects, as well as new interdisciplinary topics. The PCS organizes focus workshops (2-3 days) and workshops (5 days). The activities cover all research areas related to the broadly defined field of the theoretical physics of complex systems. Combinations with Advanced Study Group activities are welcome.

Proposals are to be submitted to the PCS Visitor Program at [pcs@ibs.re.kr](mailto:pcs@ibs.re.kr). More information on the past activities can be found at [pcs.ibs.re.kr](http://pcs.ibs.re.kr).

Call for **applications for multiple positions** in condensed matter physics, mesoscopics, and physics of light

(applications are considered **continuously**)

## Research Fellow / Visiting Research Fellow / Ph.D. Student

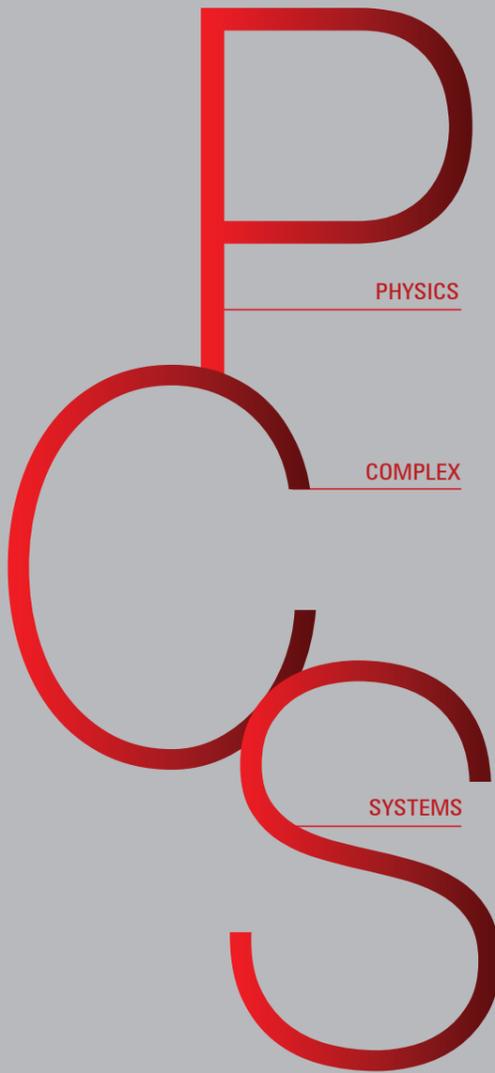
Research Fellow positions vary from the postdoctoral to sabbatical level, with flexible duration and competitive salaries. Visiting positions range from a few days to several months (usually up to a year). Salaries are commensurate with experience. Ph.D. fellowships are typically for three years.

The research work will focus on modern and important topics in the broadly defined field of the theoretical physics of complex systems.

For more information and how to apply, see [pcs.ibs.re.kr](http://pcs.ibs.re.kr).

The Institute for Basic Science (IBS), established in November 2011, is Korea's first dedicated basic science research institute. Currently, 30 research centers in physics, chemistry, mathematics, life sciences, earth science, and interdisciplinary fields operate under the IBS. For more information see [ibs.re.kr](http://ibs.re.kr).

The Center for Theoretical Physics of Complex Systems (PCS), operated under the IBS, was founded in December 2014, with scientific activities starting in May 2015. Besides hosting resident researchers, the PCS runs an active Visitor and Workshop Program aimed at providing young scientists with an excellent research environment and connections with worldwide leaders in a broad variety of emerging fields.



**PCS** Center for Theoretical  
Physics of Complex Systems

**IBS** Institute for Basic Science

**E-mail** [pcs@ibs.re.kr](mailto:pcs@ibs.re.kr)  
**Webpage** [pcs.ibs.re.kr](http://pcs.ibs.re.kr)  
**Tel** (+82) 42 878 8633  
**Fax** (+82) 42 878 8699