

Junior Research Team Leaders (IBS senior researcher position)

The Center for Theoretical Physics of Complex Systems invites applications for one or two Junior Research Team Leaders in the broad field of condensed matter physics, mesoscopics, quantum thermodynamics, quantum computing, and the physics of light.

The successful candidates will research and lead team research with designated teams of young postdoctoral fellows and PhD students. The focus of the team research can be on uncovering fundamental interacting many-body processes in trapped atomic condensates, superconducting networks, metamaterials, quantum dot arrays, plasmonic and nanophotonic structures, mesoscopics, photonics, and non-equilibrium quantum thermodynamics, among others. New proposed directions are highly welcomed.

Strong oral and written communication skills, excellent computational skills and the ability to lead a research project with allocated Center members are essential. Applicants should have a PhD, postdoctoral research experience, as well as a strong interest to work in a multidisciplinary and dynamic research environment. The teams draw on infrastructure and administration of the Institute for Basic Science, Korea, and are provided with research expenses including travel expenses and conference participation fees. The successful candidates will lead teams of two to four center members on postdoctoral and PhD levels.

The duration of the positions will be for three years, with the possibility of prolongation for two additional years. The competitive salary will be commensurate with experience. Team leaders may qualify for faculty positions within the IBS-UST graduate school, including lecturing and supervising.

Interested applicants should send a *cover letter*, *CV (including a publication list)*, a detailed *team research plan* and arrange for *three letters of recommendations* directed to Dr. Sergej Flach via email (pcs@ibs.re.kr).

Application deadline: October 31, 2020

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 www.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 an excellent research environment and connections with worldwide leaders in a broad variety of emerging fields. For more information see pcs.ibs.re.kr.

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Applications are also considered *continuously* (no deadline) for multiple **Senior Researcher**, **Postdoctoral Research Associate**, **Visiting Researcher**, and **Ph.D. Student** positions in the broadly defined field of theoretical physics of complex systems — cf. pcs.ibs.re.kr for details.