

Postdoctoral Fellows and Ph.D. Students

The newly established team “Quantum Chaos in Many-Body Systems”, led by Dario Rosa, is looking for several postdoctoral fellows as well as Ph.D. students willing to join the group.

The research interests of the group cover several topics, whose common theme is to study how quantum chaos (or its absence) affects the dynamical properties of quantum many-body systems. Among them, the group is currently focusing mostly on the following themes:

- Late-time quantum chaos and BGS conjecture
- Early-time quantum chaos and operator growth
- Quantum batteries
- Many-body localization
- Quantum many-body scars

More details can be found at the web page (<https://sites.google.com/view/qcmbs>).

Strong oral and written communication skills, excellent computational skills (analytical and/or numerical are both welcome) and the ability to work on the main research interests of the group are essential for these positions. Applicants should also have a strong interest to work in a multidisciplinary and dynamic research environment.

Interested applicants should provide *a single PDF file including a cover letter, a full CV (including a list of publications) and a research plan (perspective Ph. D. students can send a statement of interest)*, to be sent to the following email address

pcs@ibs.re.kr

At the same time, two letters of recommendation should be sent at the same address.

Informal inquires about the announced positions can be directed to Dario Rosa at:

dario_rosa@ibs.re.kr

The Institute for Basic Science (IBS), established in November 2011, is Korea’s first dedicated basic science research institute. Currently, 31 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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