The German–Korean International Research Training Group (IRTG) 2235 “Searching for the regular in the irregular: Analysis of singular and random systems” funded by the Deutsche Forschungsgemeinschaft (DFG), offers several PhD positions at Bielefeld University, starting April 1st, 2019.

The IRTG is a joint research program established by the Faculty of Mathematics at Bielefeld University, Germany, and the Department of Mathematical Sciences at Seoul National University, South Korea. In a truly international and competitive environment, doctoral students will study singular and random systems.

The IRTG concentrates on advanced techniques from the mathematical field of Analysis together with latest developments in neighboring fields such as Mathematical Physics, Geometry, and Probability Theory. The focus will be on the mathematical analysis of problems which generically exhibit singular features or randomness. The topics include nonlinear wave equations, integrodifferential equations, oscillator models, random matrices, generalized Dirichlet and magnetic energy forms, analysis on manifolds and fractal metric spaces. The IRTG offers a structured course program in English and a six-months research stay at Seoul National University.

Your Profile
We expect
- an excellent Master degree (or an equivalent degree) in Mathematics, Mathematical Physics or a neighboring field
- good communication skills
- proficiency in English

Remuneration
Salary will be paid according to Remuneration level 13 (part-time 75 %) of the Wage Agreement for Public Service in the Federal States (TV-L) (depending on previous professional experience starting at approx. 1600€ monthly net incomes). As stipulated in § 2 (1) sentence 2 of the WissZeitVG (fixed-term employment), the contract ends after a period of three years. In accordance with the provisions of the WissZeitVG and the Agreement on Satisfactory Conditions of Employment, the length of contract may differ in individual cases. The employment is designed to encourage further academic qualification. The positions are advertised as 75 % part-time jobs. In individual cases, this percentage may be reduced on request, as long as this does not conflict with official needs.

Bielefeld University is particularly committed to the career development and equal opportunities of its employees. It offers attractive internal and external training and further training programs. Employees have the opportunity to use a variety of health, counselling, and prevention programs. Bielefeld University places great importance on a work-family balance for all its employees.

Application Procedure
For full consideration, your application should contain the following documents and be received preferably via email sent to irtg@math.uni-bielefeld.de by the 31st of January 2019. Please do not use application portfolios and send only photocopies of original documents because all application materials will be destroyed at the end of the selection procedure.

Application documents
(a) Application form (https://irtg.math.uni-bielefeld.de/_media/doctoral_positions/application_form_irtg2235.pdf)
(b) CV
(c) Transcript of records, including:
• 1st university degree or intermediate examination (e.g. B.Sc., Vordiplom)
• 2nd university degree (e.g. Master, Diploma), or intermediate results if in progress
• if applicable: transcript of additional university degree(s)
(d) Copy of each publication (including Diploma / Master thesis)
(e) Letter of application stating your motivation, qualification, main scientific experiences, and a brief outline of your current and future scientific interests (1 page)
(f) One letter of recommendation from an experienced scientist. For reasons of privacy, the letters should be sent to us by the referees directly (to IRTG@math.uni-bielefeld.de). In the application form we ask you to name two further scientists who would be willing to write a letter of recommendation to support your application.
(g) Handicapped or severely handicapped persons can indicate this status on the application form. In this case, please enclose a corresponding certificate.

Contact
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Bielefeld University has received a number of awards for its achievements as an equal-opportunity employer and has been recognized as a family-friendly university. The university welcomes applications from women. This is particularly true with regard both to academic and technical posts as well as positions in Information Technology as well as the skilled crafts and trades. Applications are handled according to the provisions of the state statutes on equal opportunity. Applications from suitably qualified handicapped and severely handicapped persons are explicitly encouraged.