



Paderborn University is a high-performance and internationally oriented university with approximately 20,000 students. Within interdisciplinary teams, we undertake forward-looking research, design innovative teaching concepts and actively transfer knowledge into society. As an important research and cooperation partner, the university also shapes regional development strategies. We offer our more than 2,600 employees in research, teaching, technology and administration a lively, family-friendly, equal opportunity environment, a lean management structure and diverse opportunities.

Join us to invent future!

The intention of the newly founded Collaborative Research Centre (CRC TRR) 358 „Integral structures in geometry and representation theory“ - funded by the German Research Foundation (DFG) and based at Bielefeld, Paderborn and Bonn - is to establish an internationally visible centre of mathematical research in the region of East Westphalia. The CRC pursues a broad research program in the fields of algebraic combinatorics, automorphic forms, arithmetic and complex algebraic geometry, categorical representation theory, geometric group theory, harmonic analysis on locally symmetric spaces and theory of affine buildings.

The CRC TRR 358 will create an attractive research environment with many guests, seminars and workshops and offers extensive funds for business trips.

In the context of subproject B2, the following position is available at the Institute of Mathematics, part of the **Faculty of Computer Science, Electrical Engineering and Mathematics** at the earliest possible opportunity:

Postdoctoral Researcher (f/m/d)

(salary is according to E 13 TV-L)

with 100% of the regular working hours. The temporary position is initially limited to a period of 36 months due to third-party funding within the meaning of the Wissenschaftszeitvertragsgesetz (WissZeitVG). The position is to be filled in September 2023 or earlier if possible. The duration of the fixed term corresponds to the approved project period at the University of Paderborn.

Your Tasks:

- Scientific collaboration in subproject B2 "Spectral theory in higher rank and infinite volume". In particular, research on the spectral theory of Riemannian locally symmetric spaces, on discrete and in particular sparse subgroups in higher rank, and on the arithmetic and representation-theoretic meaning of spectra
- Active participation in project-internal activities of the CRC
- Participation in general work of CRC TRR 358, planning and support of general joint CRC activities

Your profile:

- Very good scientific university degree (master's degree) or a related subject
- PhD in mathematics
- Excellent expertise in at least one research area that is relevant for the project, such as spectral theory of locally symmetric spaces or Harmonic analysis on symmetric spaces and real reductive groups or geometric properties of discrete subgroups in higher rank
- Good skills of spoken and written English

Since Paderborn University seeks to increase the number of female scientists, applications of female are especially welcome. In case of equal qualification and scientific achievements, they will receive preferential treatment according to the North Rhine-Westphalian Equal Opportunities Policy (LGG), unless there are cogent reasons to give preference to another applicant. Likewise, applications of disabled people with appropriate qualification are explicitly requested. This also applies to people with equal status according to the German social law SGB IX.

Applications (including a detailed cv, copies of certificates, diplomas) are requested under the **reference number 5641** by **19th of December 2022**. Please send your application (preferably in a single pdf file) by email to sek.sfb@math.upb.de. In addition, one or two letters of recommendation from university teachers directly from the author should also be sent to sek.sfb@math.upb.de by 15th of January 2023, quoting the reference number 5641.

Information regarding the processing of your personal data within the framework of the CRC/Transregio 358 are located at: <https://www.uni-paderborn.de/en/zv/personaldatenschutz>.

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