



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 B3, 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 24 months due to third-party funding within the meaning of the Wissenschaftszeitvertragsgesetz (WissZeitVG). The duration of the fixed term corresponds to the approved project period at the University of Paderborn.

Your Tasks:

- Scientific collaboration in the subproject B3 "Spherical harmonic analysis on affine buildings and Macdonald theory". Depending on your focus, you should have good knowledge in one or more of the following areas: Harmonic analysis on buildings and/or Riemannian symmetric spaces, Macdonald-Cherednik theory, special functions on root systems
- Active participation in project-internal activities of the CRC and the working group „Harmonic analysis“
- 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)
- PhD in mathematics
- 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 curriculum vitae, copies of certificates, diplomas) and one or two additional letters of recommendation from university teachers – directly from the author – are requested under the **reference number 5642** by **6th of January 2023** (preferably in a single pdf file) by email to: sek.sfb@math.upb.de.

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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