



Paderborn University is a high-performance and internationally oriented university with approximately 18,000 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 around 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 A2, 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:

PhD student (f/m/d)

(Salary is according to EG 13 TV-L)

with 75% of the regular working hours. The temporary position is initially limited to 31st of December 2026 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. The possibility of a doctoral procedure/further scientific qualification is given.

Your Tasks:

- Active participation in project-internal activities of the CRC and the working group „Computer algebra and number theory“
- Participation in general work of CRC TRR 358, planning and support of general joint CRC activities
- Scientific collaboration in the subproject A2

Your profile:

- Very good scientific university degree (master's or Diplom degree) in mathematics
- Background in number theory and/or computer algebra
- Good skills of spoken and written English

We offer:

- Exciting, highly relevant research topics
- Collegial environment with many creative opportunities

Applications from women are particularly welcome and, in case of equal qualifications and experiences, will receive preferential treatment according to the state law (LGG), unless there are preponderant reasons to give preference to another applicant. Part-time employment is generally possible. Applications from disabled people with appropriate suitability are explicitly welcome. This also applies to people with equal opportunities in accordance with 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 6198** by **4th of December 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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