



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 C3, 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:

Research Associate (f/m/d)

(salary is according to E 13 TV-L)

with 75% of regular working hours. This is a qualification position in the sense of the Wissenschaftszeitvertragsgesetz (WissZeitVG), which serves to promote a doctoral procedure in the field of algebra/ algebraic geometry. The position is to be filled for a limited period of time for the duration of the doctoral process, depending on the qualification achieved so far, but usually for a period of 3 years. An extension for the completion of the doctorate is possible within the time limits of the WissZeitVG.

Your Tasks:

- Scientific collaboration within the subproject C3 „Tame patterns in the representation theory of reductive Lie groups and arithmetic geometry“, in particular research in the field of tame matrix problems and non-commutative nodal curves or in the field of D-modules and Harish-Chandra modules for reductive Lie groups
- Active participation in project-internal activities of the CRC and the working groups „Algebra“ and „Algebra and number theory“
- 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)
- 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 5644** by **15th 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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