Saarland University is a campus university with an international focus and a strong research profile characterized by the three main research areas 'Computer Science', 'NanoBioMed' and 'Europe'. With numerous internationally respected research institutes situated in the vicinity of the university and dedicated support for start-up companies, Saarland University is an ideal environment for research, teaching and innovation. The proportion of international students studying at Saarland University is well above the national average and is testimony to the university's strong international focus. Saarland University has been an officially certified family-friendly university since 2004.

The Department of Mathematics at Saarland University encompasses the full spectrum of mathematics and forms a joint faculty with the Department of Computer Science with which it collaborates closely.

The Department of Mathematics is inviting applications for the following position to commence at the earliest opportunity:

Junior Professorship (W1) in Quantum Information Theory (f/m/x; Reference no.: W2331)

This is a maximum six-year tenure track appointment to a permanent full professorship (W2).
At Saarland University, tenure track professors (W1) are regarded as full members of the professorial staff and have the right to supervise Bachelor's, Master's and PhD students. The duration of the appointment may be extended to the maximum period of six years if this is supported by the results of the teaching appraisal and the external assessment of your research work at the end of the first three years. If your performance continues to meet the required standards and if the tenure evaluation procedure is positive, you will be promoted to a permanent professorship (lifetime tenure) at the German academic salary scale W2.

As the successful candidate, you will have exceptional research skills, university teaching experience and international visibility in your field. Your research will be in the area of quantum information theory, preferably focusing on quantum algorithms or other aspects of quantum information in mathematics and computer science. You will be expected to complement existing research projects, to contribute to expanding research work in the field of quantum information theory at Saarland University and be willing and able to pursue collaborative activities. You will also be involved in developing a degree programme in the area of quantum information theory.
Experience securing external research funding is welcome. You will be expected to independently secure external funding and be willing to contribute to joint research proposals that strengthen the department, faculty and university. Your teaching duties will include courses for mathematics and computer science students (including those studying for teaching qualifications), specifically in analysis, and you will be expected to provide service teaching to students in other departments. Courses are taught in German and English.

The appointment will be made in accordance with the general provisions of German public sector employment law. You must be a university graduate who has demonstrated a particular capacity for independent academic research, usually evidenced by the outstanding quality of your PhD or doctoral thesis. You will typically have completed a period of postdoctoral research and have teaching experience at university level. If you were employed as a research associate (or equivalent) in Germany before or after your PhD/doctorate, the combined period of doctoral research and employment should not exceed six years, or nine years in the field of medicine. For additional information on employment requirements, please refer to Sec. 1.3 of the Framework Regulations Governing the Approval, Recruitment and Evaluation Procedures for Junior Professorships at Saarland University (Rahmenordnung zur Freigabe, Besetzung und Evaluation von Juniorprofessuren an der Universität des Saarlandes) of 12 December 2018 (www.uni-saarland.de/berufungen).

At Saarland University, we view internationalization as a process spanning all aspects of university life. We therefore expect members of our professorial staff to engage in activities that promote and foster further internationalization. Special support will be provided for projects that maintain or expand on collaborative interactions within existing international cooperative networks, e.g. projects with partners in the European University Alliance Transform4Europe (www.transform4europe.eu) or the University of the Greater Region (www.uni-gr.eu).

In accordance with the objectives of its gender equality plan, Saarland University is actively seeking to increase the proportion of women in this field. Qualified women candidates are therefore strongly encouraged to apply. Preferential consideration will be given to applications from disabled candidates of equal eligibility. Furthermore, we welcome applications from all qualified candidates irrespective of nationality, ethnic heritage or social background, religious beliefs, personal beliefs or values, age, sexual orientation or identity.

To apply for this position, please submit your application by no later than **14 January 2024** via Saarland University's online professorial appointments platform: **www.uni-saarland.de/berufungen**. Application documents must be uploaded as a single PDF file (max. size 10 MB) and should include the following documents:

- a letter of application that is addressed to the Dean of the Faculty of Mathematics and Computer Science (Prof. Jürgen Steimle) and that includes you home address, phone number and email address
- CV/résumé including a complete list of publications, a summary of your previous and planned research and academic teaching activities, your record in acquiring external funding, and electronic copies of your certificates.
- Please also submit the completed questionnaire for junior professorships at Saarland University, which can be downloaded via the online application form.
- Questions about this position can be addressed to Prof. Moritz Weber (email: weber@math.uni- sb.de).

When you submit a job application to Saarland University you will be transmitting personal data. Please refer to our privacy notice for information on how we collect and process personal data in accordance with Art. 13 of the General Data Protection Regulation (GDPR) (www.uni-saarland.de/en/privacy). By submitting your application, you confirm that you have taken note of the information in the Saarland University privacy notice.