As a University of Excellence, Universität Hamburg is one of the strongest research universities in Germany. As a flagship university in the greater Hamburg region, it nurtures innovative, cooperative contacts to partners within and outside academia. It also provides and promotes sustainable education, knowledge, and knowledge exchange locally, nationally, and internationally.

The Faculty of Mathematics, Informatics and Natural Sciences, Department of Mathematics, Algebra and Number Theory invites applications for a

RESEARCH ASSOCIATE

ALGEBRAIC TOPOLOGY AND HOMOTOPICAL ALGEBRA

- SALARY LEVEL 13 TV-L -

The position in accordance with Section 28 subsection 1 of the Hamburg higher education act (Hamburgisches Hochschulgesetz, HmbHG) commences on **1 September 2020 or later**.

This is a fixed term contract in accordance with Section 2 of the academic fixed-term labor contract act (Wissenschaftszeitvertragsgesetz, WissZeitVG). The initial fixed term is three years. The position calls for 50% of standard work hours per week.*

RESPONSIBILITIES:

Research associates will be expected primarily to teach and conduct research. The research associate will also have the opportunity to pursue further academic qualifications, in particular a doctoral dissertation. At least one-third of set working hours will be made available for the research associate's own academic work.

SPECIFIC DUTIES:

The Cluster of Excellence "Quantum Universe" performs research to understand mass and gravity at the interface between quantum physics and cosmology. The research team includes leading scientists from mathematics, particle physics, astrophysics, and cosmology at Universität Hamburg and DESY.

The successful applicant for this PhD position will work with Julian Holstein on projects in algebraic topology and homotopical algebra with a view to mathematical physics.

* Full-time positions currently comprise 39 hours per week.

Teaching is expected at the level of 2 hours per week. Doctoral research associates will become member of the Quantum Universe research school (QURS) and through this receive offers for academic training, soft skills, and career planning. In addition, they will receive individual budgets, meant to enable them to attend summer schools, conferences or other educational and supporting measures. Additional travel money for project-specific duties will be made available via the hosting research groups. Doctoral research associates are invited to actively participate in the organization of the Cluster via an early career council.

REQUIREMENTS:

A university degree in a relevant field. The successful applicant should have some background in algebraic topology and/or homological algebra, as well as interest in higher algebraic structures in topology and their applications to mathematical physics.

The Free and Hanseatic City of Hamburg promotes equal opportunity. As women are currently underrepresented in this job category at Universität Hamburg according to the evaluation conducted under the Hamburg act on gender equality (Hamburgisches Gleichstellungsgesetz, HambGleiG), we encourage women to apply for this position. Equally qualified and suitable female applicants will receive preference.

Qualified disabled candidates or applicants with equivalent status receive preference in the application process.

For further information, please contact Jun.-Prof. Dr. Julian Holstein (julian.holstein@uni-hamburg.de) or consult our website at www.qu.uni-hamburg.de.

Applications should include a cover letter stating your research interests, a tabular curriculum vitae, copies of degree certificate(s), a brief description of your Master's project if available, and at least two letters of recommendation. Please send applications by **1 May 2020** to: julian.holstein@uni-hamburg.de and office@qu.uni-hamburg.de. Later applications will be considered until the position is filled.

Please do not submit original documents as we are **not** able to return them. Any documents sub-mitted will be destroyed after the application process has concluded.

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