

## Research Training Group 1670 "Mathematics Inspired by String Theory and QFT"

### PhD Position Vacancy

The Research Training Group builds on an established and very lively collaboration between the Departments of Mathematics and Physics and the string theory group of DESY (<http://zmp.desy.de>). It is embedded in a larger research environment consisting of the Collaborative Research Center SFB 676 "Particles, Strings and the Early Universe" (<http://wwwiexp.desy.de/sfb676>) and the Cluster of Excellence "Connecting Particles with the Cosmos" (<http://lexi.desy.de>). The Research Training Group aims at educating mathematicians and mathematical physicists with basic knowledge in string theory and quantum field theory that enables them to participate actively in cutting-edge interdisciplinary research. Research topics include differential geometry connected to supersymmetry, three-dimensional topological field theories, mirror symmetry, string topology and holomorphic curves, algebraic and arithmetic structures in perturbative quantum field theory and higher categorical geometry and homotopical methods for string backgrounds. Students connect and broaden their individual Ph.D. projects by lectures of resident and guest scientists, working seminars, block courses and exchange programs. All activities take place in English.

We now invite applications for five positions of 50% FTE (19.5 hours/week) of

#### Research Associates (wissenschaftliche Mitarbeiter/innen)

- salary group 13-TV-L. The positions are open until they are filled. The short-term contract is limited to 3 years, subject to an extension of the RTG beyond 2015 and in compliance with § 2 of the Academic Fixed-Term Contract Law (Wissenschaftszeitvertragsgesetz).

The university intends to increase the number of women amongst its academic personnel and expressly encourages qualified women to apply. In compliance with the Hamburg Equal Opportunity Law, preference will be given to qualified female applicants.

**Responsibilities:** Academic work on a thesis project, active participation in the activities of the Research Training Group.

**Requirements:** A qualifying academic degree in Mathematics or Physics.

Preference will be given to disabled applicants with equal qualifications.

Application dossiers including a curriculum vitae, a letter of motivation including a suggestion for thesis adviser(s), copies of certifications of academic qualifications held and one or two letters of recommendation (confidential) shall be submitted by email to the address below **as well as directly to potential thesis advisers** (listed in <http://grk1670.math.uni-hamburg.de/researchers/>)

E-Mail: [rtg1670.office@uni-hamburg.de](mailto:rtg1670.office@uni-hamburg.de)

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Website: [grk1670.math.uni-hamburg.de](http://grk1670.math.uni-hamburg.de)