

The Research Training Group (RTG) 2575

Rethinking Quantum Field Theory

invites applications for

several PhD positions in theoretical physics

funded by the German Research Foundation (DFG). The RTG is conducted by all research groups in quantum field theory at Humboldt Universität zu Berlin in cooperation with partners at DESY and the Max-Planck-Institute for Gravitational Physics (Albert-Einstein-Institut) in Potsdam. Building upon important recent innovations the RTG aims at the further development of methods and concepts in quantum field theory. These will lead to a deep rethinking of its foundations paired with a quick impact on applications. We address a broad research spectrum in quantum field theory and offer challenging PhD projects in the general areas of

- * Scattering Amplitudes
- * Phenomenology
- * Lattice Field Theory
- * AdS/CFT Correspondence
- * Analytical Gravitational Waves
- * Mathematical aspects of Quantum Fields

reflecting the broad expertise of the research groups involved. A timely qualification program for a new generation of theorists will train them in modern aspects of quantum field theory with a focus on a broad interdisciplinary education. Next to the research work key elements of our qualification program are (i) introductory and advanced courses on QFT, (ii) an annual retreat with external lecturers and seminars, (iii) a monthly colloquium, (iv) two internships in neighboring research groups, (v) self-organized seminars, (vi) presentations on career perspectives outside of academia, and (vii) professional soft skills training.

Selected candidates will receive a three-year doctoral position according to the German public service salary scale (TV-L E13 66.6%) starting March 1st 2021.

Applicants should hold a degree equivalent to a Master's degree in theoretical physics or related areas. Women are particularly encouraged to apply. Disabled applicants will be preferred if they are equally suitable. Applications from people with a migration background are expressly welcome.

Details on the profile of the RTG and the online application procedure may be found at <https://www2.hu-berlin.de/rtg2575/>

The deadline for applications is January 1st 2021.

Jan Plefka,

Spokesperson of the RTG 2575