

QFIRS – An integrated structured educational programme for doctoral students and postdocs in Hannover and Braunschweig

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At the beginning of this year, scientists from Leibniz Universität Hannover and Technical University Braunschweig, together with colleagues from Physikalisch Technische Bundesanstalt (PTB) started the Cluster of Excellence „QuantumFrontiers - Light and Matter at the Quantum Frontier“. We aim to push the limits of metrology, from the universe scale to nano and less, with unprecedented sensitivity and precision. We are also setting up an innovative structured education system „QuantumFrontiers International Research School (QFIRS)“. We will educate young researchers to create a new generation of quantum and nano experts, link physics and engineering, increase internationalization, and establish scientific alumni network. Our programme is built based on highly successful and well established structured programmes like the International Max Planck research School on Gravitational Wave Astronomy (IMPRS-GW) and the Braunschweig International Graduate School of Metrology (B-IGSM). These will be complemented and coordinated by QFIRS. QFIRS will also support early career researchers at the postdoctoral level, and enhance public and school engagement. We believe that our integration of local educational programmes to create an expanded structured educational programme at a regional level can serve as a good model for building a common structured programme within the gravitational wave community, which consists of many remote individual groups.