

Max-Planck-Institut für Quantenoptik
Quantum Dynamics Division

PhD / Postdoc Position

(Experimental Physics / Quantum Optics)



- hybrid quantum interfaces - storage of quantum-dot photons in atomic vapour

The European project HANAS (“Hybrid Artificial and Natural Atomic Systems”) aims to demonstrate that a powerful synergy can emerge from hybrid quantum systems, in particular from combining the advantages of solid-state and atomic devices. The project is in a very exciting phase, as we have developed a novel apparatus for the storage of nanosecond light pulses in rubidium vapour. Meanwhile, our international partners have realized new types of highly-efficient, wavelength-tuneable solid-state quantum emitters optimized for coupling to atomic transitions.

We are immediately looking for a highly-motivated experimental physicist eager to take the final steps in preparing our memory for single-photon storage and to ultimately pursue hybrid experiments like the storage of single photons from a quantum dot in an atomic medium..

Formal applications including a list of professional and educational history, transcripts of grades, publication list and possible recommendations should be sent to:

Prof. Gerhard Rempe

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<http://www.mpq.mpg.de/quantumdynamics>