

**University of Stuttgart**  
Germany

**DFG** Deutsche  
Forschungsgemeinschaft

The 5th Institute of Physics in Stuttgart will realize a crucial building block for a future quantum network. The project is funded by the Deutsche Forschungsgemeinschaft and is in line with German quantum technologies roadmap. In collaboration with the Institut für Halbleiteroptik und Funktionelle Grenzflächen (IHFG) we will develop a single photon-atom interface.

## We are looking for a highly motivated PhD/Master student in **Quantum Storage of Single Photons**

### Your tasks:

- envision, plan & build a storage device for single photons based on hot Cs-vapor
- combine your research with quantum dot photons
- manage & implement an experiment and make it 'real-world' ready
- close collaboration between two institutions at the University of Stuttgart

### Your skills:

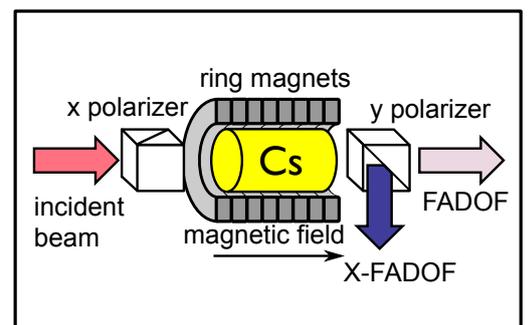
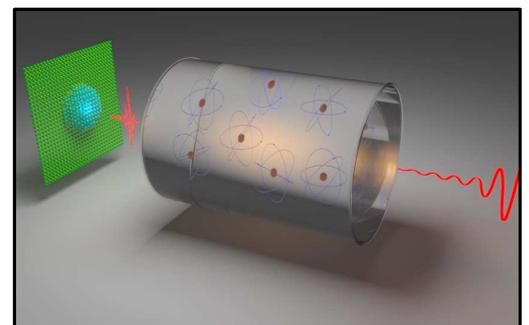
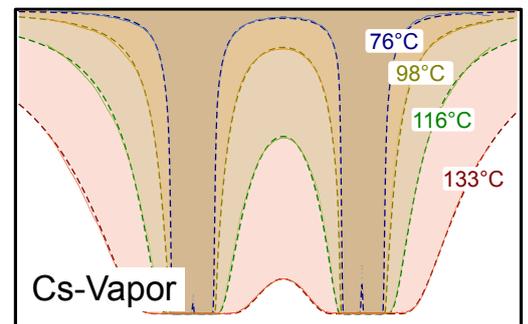
- studies in physics, or comparable field
- track record in working on at least one experimental research project

### Considered as a plus:

- atomic physics experience
- experience with lasers
- knowledge in quantum information and quantum optics

### Our offer:

- working at a world-leading institutes in atomic physics & quantum dot photons
- interdisciplinary research between solid-state research and atomic physics
- joining the development of the future quantum Internet
- a vibrant international working environment



### Are you interested?

...then we are very happy to welcome you in the lab and/or to receive your application.  
To apply, please send your CV and a motivation letter to:

[r.loew@physik.uni-stuttgart.de](mailto:r.loew@physik.uni-stuttgart.de)



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