

QUANTUM ELECTRONICS

WE ARE HIRING!

We are searching for passionate students to join our team and contribute to groundbreaking experiments!



What we do: Our lab explores how the laws of quantum mechanics govern electronic transport in nano-devices made from exotic quantum materials. We are particularly fascinated by topological phases—unique states of matter with exciting and complex physics connected to their topological properties.

What we offer:

- Advanced transport experiments: sub-nanosecond transport, single electron control and detection, low noise electronics...
- Hands-on experience in cleanroom fabrication, measurement setups, and advanced data analysis.
- Close supervision, in a young and dynamic team at the heart of Cologne.



Some research themes:

- Edge states and magnetic domains
- Charge fractionalization and anyons
- Thermal conductance of Majorana modes

You study physics or electrical engineering?

You are interested in joining us?

Scan the QR Code for open positions
or contact us: qelec@ph2.uni-koeln.de



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CRC1238
Control and Dynamics
of Quantum Materials



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