

# Seminar Quantum Statistical Physics

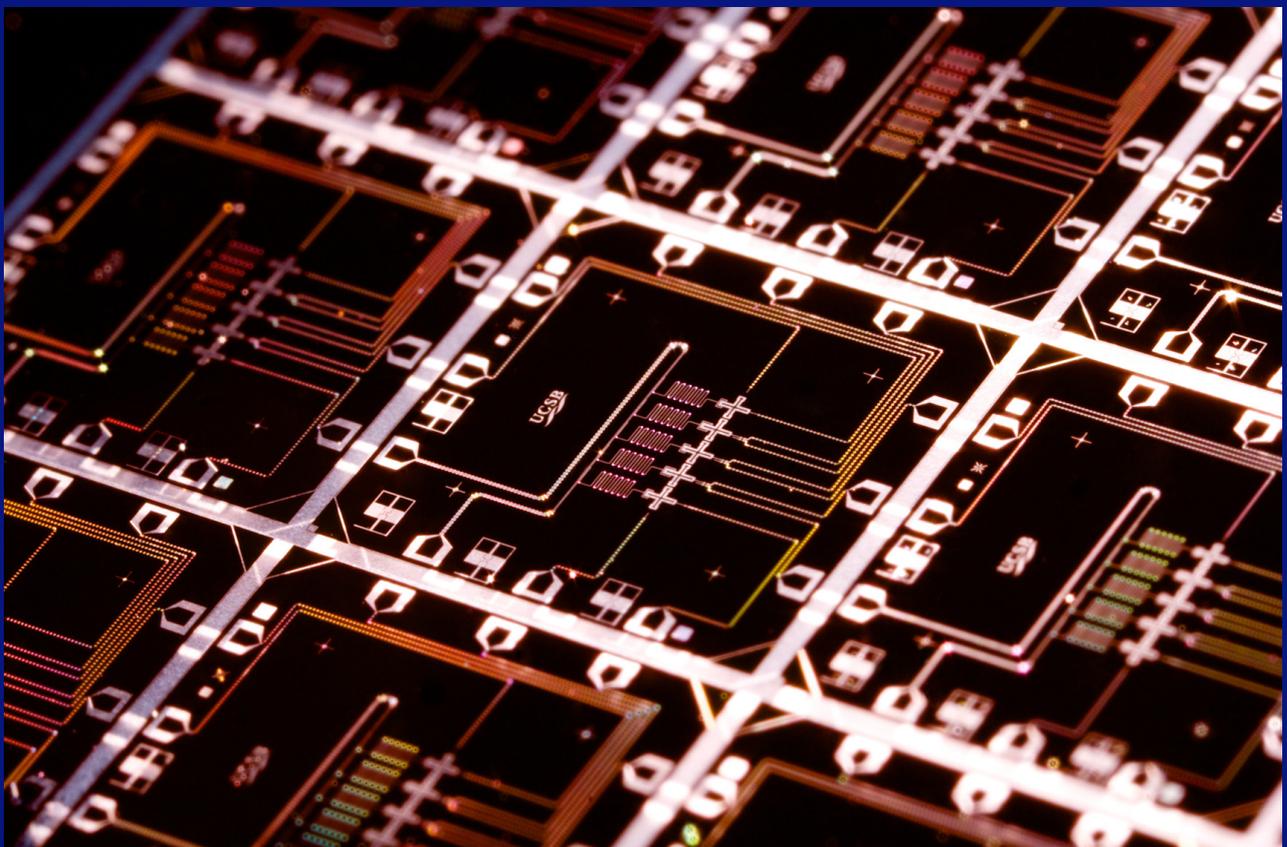
## Physics of Quantum Computing

Prof. Dr. Bernd Rosenow, ITP Universität Leipzig  
Summer Term 2018, Wednesdays 15:15-16:45, SR 210

Your presentations will form an introduction to the basics of quantum computation and state-of-the-art implementations using superconducting qubits. Possible topics for presentations are

- qubits and quantum gates, Bell states, quantum cryptography, teleportation, breaking RSA encryption
- superconducting qubits, transmons, surface codes, topological error correction

Online experimentation with a 5-qubit quantum computer is possible under <https://quantumexperience.ng.bluemix.net/qx>



<https://web.physics.ucsb.edu/~martinigroup/photos>

Further information under <http://www.uni-leipzig.de/~stp/courses.html>