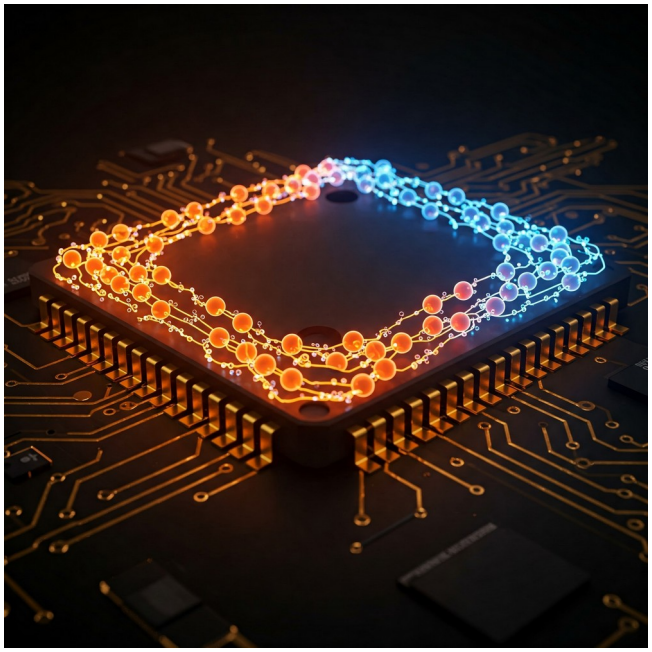
Superconductor-semiconductor Hybrids for Qubits on Germanium

The research Lab of Prof. Anasua Chatterjee focuses on the development and optimization of spin qubits in semiconductor materials for scalable quantum computing. By combining superconducting elements with semiconducting spin qubits, one research direction explores novel hybrid qubit platforms as a pathway to scalable quantum computing. Our goal is to advance quantum technologies, paving the way for large-scale, fault-tolerant quantum processors.



Possible MEP/BEPs involving nanofabrication and electrical transport measurements

- Interfacing PtSiGe, a superconductor, with semiconducting quantum dots in Germanium
- Investigating Josephson Junctions of PtSiGe

QuTech
Creating the quantum future

Interested? Contact us:

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