Monday, May 27, 2024

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Integrated Photonics for Quantum Computing

## Tuesday, May 28, 2024 10:00 AM - 11:00 AM EDT

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Realizing photonic quantum technologies, such as an optical quantum computer or a quantum communication link between distant superconducting qubits, will require the development of novel photonic components. Monolithic silicon or silicon nitride photonic platforms are falling short with respect to the requirements of the quantum domain, and it is envisioned that a hybrid solution is needed. In this talk, Christian Haffner of IMEC shortly discusses what hybrid solutions the silicon photonic platform can offer in terms of detectors, sources, and modulators. His primary focus lies on the electro-optical modulator covering the requirements that the quantum world enforces. He compares the classical and quantum theoretical framework, and sketches out what performance metrics a quantum electro-optical modulator needs to fulfill. Sponsored by MicroCircuit Laboratories.
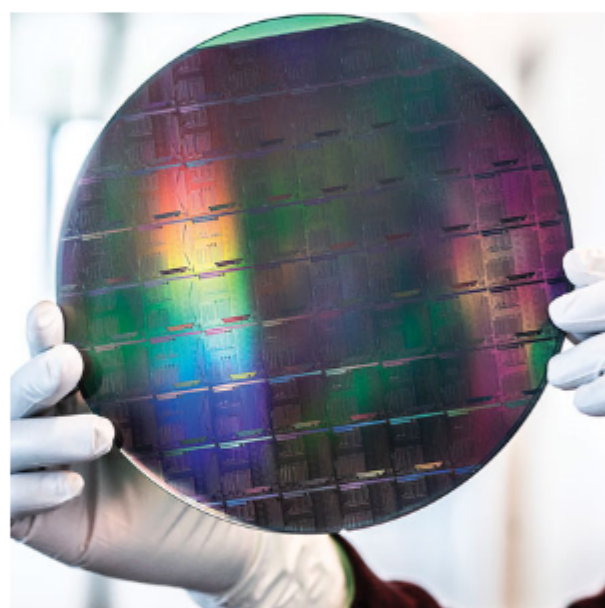
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