



## Seminar/Talk

# Quantum Computing with Germanium

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Host: Georgios Katsaros

In this talk, I will discuss recent advances in quantum computing with hole-spin qubits, focusing on planar germanium platforms. These systems provide electrically tunable spin properties, occasionally strong spin-orbit interactions, and compatibility with superconducting hybrid circuits, making them well suited for scaling quantum architectures. I will highlight new progresses in engineering the spin response in these platforms, progress in fast baseband electrical control of gapless qubits, high-fidelity readout schemes based on Andreev qubits, illustrating the potential of germanium-based devices for scalable quantum processors.

**Thursday, January 15, 2026 09:30am - 10:45am**

Office Bldg West / Ground floor / Heinzel Seminar Room (I21.EG.101)



This invitation is valid as a ticket for the ISTA Shuttle from and to Heiligenstadt Station.

Please find a schedule of the ISTA Shuttle on our webpage:

<https://ista.ac.at/en/campus/how-to-get-here/> The ISTA Shuttle bus is marked ISTA Shuttle (#142) and has the Institute Logo printed on the side.