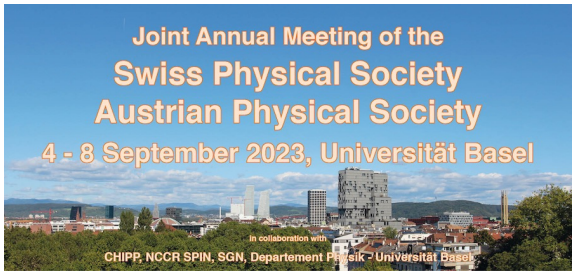

Contribution ID: **382** Type: **Talk**

【814】Germanium as a platform for semi- and superconducting qubits.

Thursday 7 September 2023 18:00 (30 minutes)

High-quality semiconductor heterostructures build the basic ingredient facilitating quantum transport experiments including the promising field of semiconductor spin qubits. Ge quantum wells have recently emerged as a suitable platform for fast spin qubits, due to a combination of favorable properties of the confined states. The Ge platform is furthermore interesting as the Fermi level pinning is close to the valence band, which allows for inducing superconductivity via the proximity effect. We aim to combine the two features and build a platform where we can couple spin and hybrid superconducting qubits via microwave photons.

Theoretical Work

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