


## Investigation of InAs–based devices for topological applications *(Invited Paper)*

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Hybrid superconductor/semiconductor devices constitute a powerful platform where intriguing topological properties can be investigated. We present different possible setups based on InAs heterostructures, in 1D and 2D configurations, which represent promising platforms to host non trivial topological states. We present study and manipulation of intrinsic spin-orbit contributions in a suspended InAs nanowire setup, discussing its vectorial nature. After we show that hybrid Josephson junction with InAs quantum well can be used to inspect the coexistence of superconductivity and quantum Hall effect.

