Spin Transport in Semiconductors
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- Spin transport in ferromagnet/III-V semiconductor heterostructures
  - Growth by molecular beam epitaxy
  - Schottky tunnel barriers used as spin injectors and detectors
  - Fabrication in NFC
  - Transport measurements probe electron spin polarization

- Major Observations
  - Enhancement of spin detection sensitivity at a biased Schottky contact
  - Quantitative measurement of the electron spin polarization through the Knight field
  - Measurement of spin Hall effect

Schematic and optical micrograph of an Fe/GaAs spin Hall device

Simulation of dynamic nuclear polarization in an Fe/GaAs device

- Publications