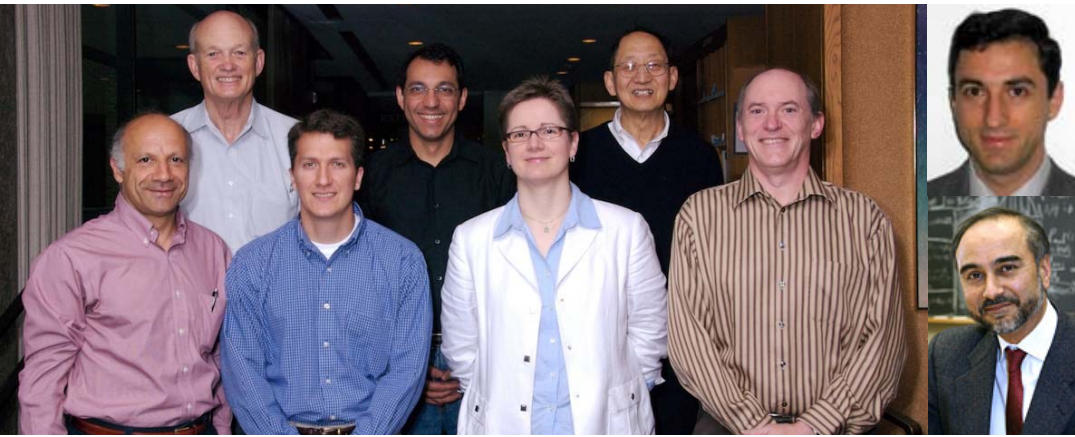


IRG-D: Quantum Control in Semiconductor Nanostructures

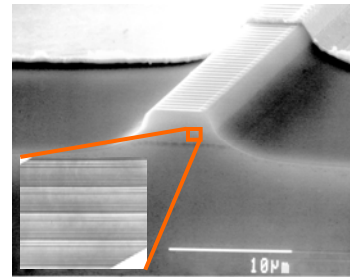
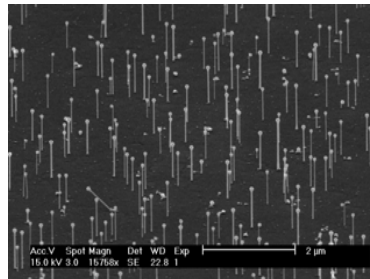


- Ravin Bhatt (EE)•
- Bill Brinkman (Phys)•
- Claire Gmachl (EE)••
- Steve Lyon (EE)•
- Jason Petta, co-leader (Phys)••
- Mansour Shayegan (EE)••
- Dan Tsui (EE)•
- Emanuel Tutuc (U. Texas)••
- Ali Yazdani, co-leader (Phys)•

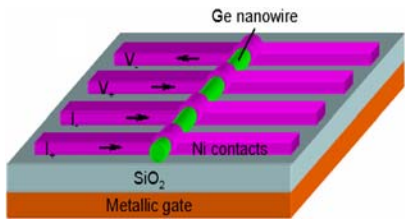
- materials growth
- experiment
- theory

collaborators: D.P. DiVincenzo• (IBM), A. Heinrich• (IBM), A. Kahn• (EE, IRG-B), M.P. Lilly• (Sandia), D. Loss• (Basel), R.A. Register• (ChE, IRG-C), J.L. Reno• (Sandia), J.C. Sturm• (EE, IRG-B)

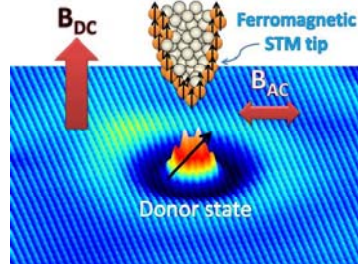
nanowires



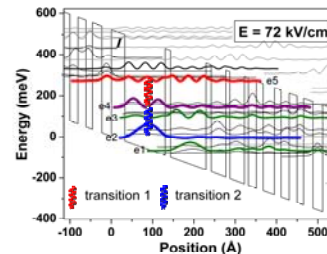
heterostructures



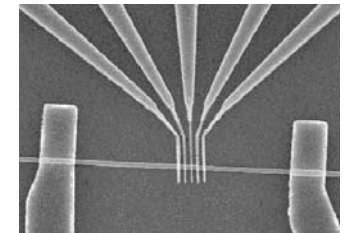
spin control and injection



development of new materials probes



nanoscale light emission



controlling hyperfine interactions in semiconductors

