A Micromachined Tunneling Amplifier

- Micromachined actuators are used to modulate the width of tunnel junctions. This creates a novel flavor of transistor.

- Surface micromachining at SNF has been used to create:
  - Electrostatic cantilever designs
  - Dual-anchored electrostatic designs (shown at right, top center of picture)

- Devices have been tested and demonstrate tunneling for short time periods.

User: Kevin Gilbert, Electrical Engineering
Stanford University
NNUN Site: Stanford University