Sb-based Nanostructures for HEMTs

- **Objective:**
  - Explore the possibilities of using Sb-based nanostructure for high-current HEMTs
  - Leverage extreme anisotropy of L-valley masses

- **Approach:**
  - Use new tight-binding parameters of G. Hegde
  - Use NEMO 5 flexibility in crystal directions, minimal unit cells

- **Results / Impact:**
  - 2 conference contributions (DRC 2010/2011) in collaboration with M. Rodwell, UCSB
  - Analysis shows extremely good characteristics of GaSb/AlSb [111]-QWs