

Objective

- Quantum transport in Resonant Tunneling Diodes.

Approach

- Non-equilibrium Green's function formalism (NEGF) for charge and current.
- Generalized open boundary conditions for the Schrödinger equation.
 - Quasi bound states
 - Relaxation in the reservoirs

Impact

- Tool on the nanoHUB: RTD-NEGF.
- 900 simulation runs from Aug.-Nov 08.

