

## Objective

- Compute charge self-consistently with potential in confined states.

## Approach

- Graphical interface with a detailed description of device geometry, delta doping and material parameters.
- Quasi-linearization of the Poisson equation to obtain stable convergence.
- Incorporate asymmetric boundary conditions for the Poisson equation by specifying the Dirichlet boundary condition on both sides.

## Impact

- Tool on the nanoHUB: 1D-Hetero.
- 550 simulation runs from Jul-Nov 08.

