


Contact

nextnano
 Software for semiconductor nanodevices

About us

Development of user-friendly software for the simulation of electronic and optoelectronic semiconductor nanodevices such as quantum cascade lasers, nanotransistors, LEDs, solar cells, resonant tunneling diodes, quantum dots, HEMTs and infrared detectors.


nextnano GmbH is a spin-off from the Walter Schottky Institute of the Technische Universität München.

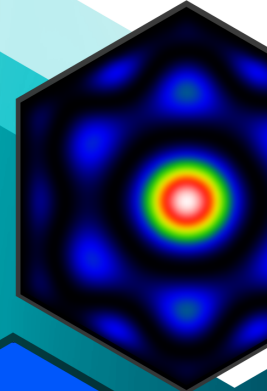
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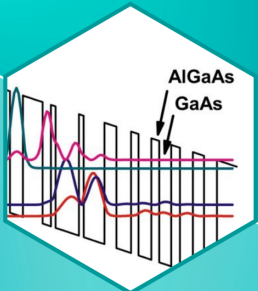
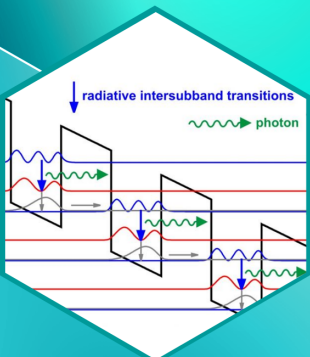
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 Software for simulation of electronic and optoelectronic semiconductor nanodevices



QCLs

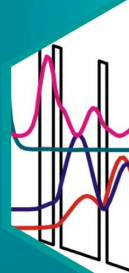
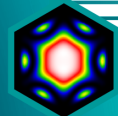
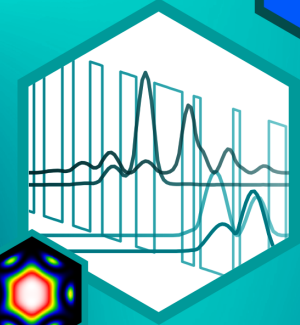
Operating principle
 Photons are emitted via intersubband transitions. Electrons tunnel resonantly into the quantum well of the next cascade.



Electron wavefunctions

Each semiconductor layer is only a few atomic layers thin. The laser wavelength is designed by "Wavefunction Engineering".

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Your digital twin for the simulation of
THz and Mid-IR Quantum Cascade Lasers

Quantum transport calculations using
nonequilibrium Green's functions (NEGF)



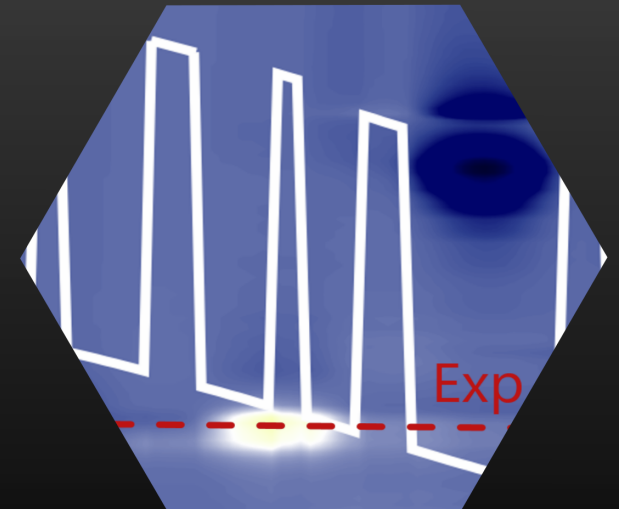
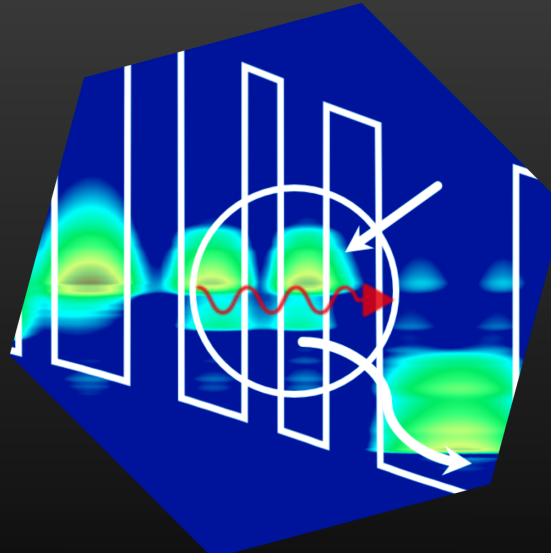
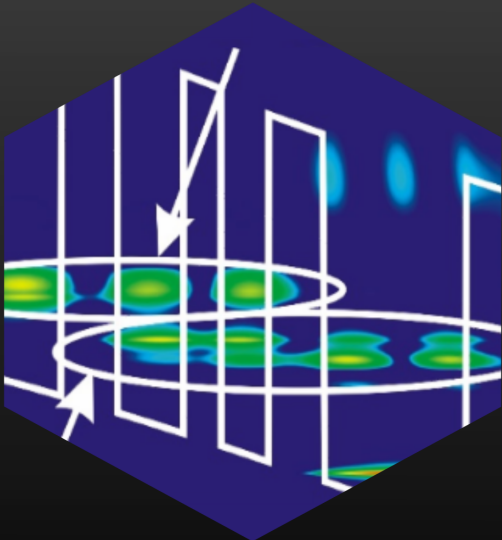
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Software for semiconductor nanodevices

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