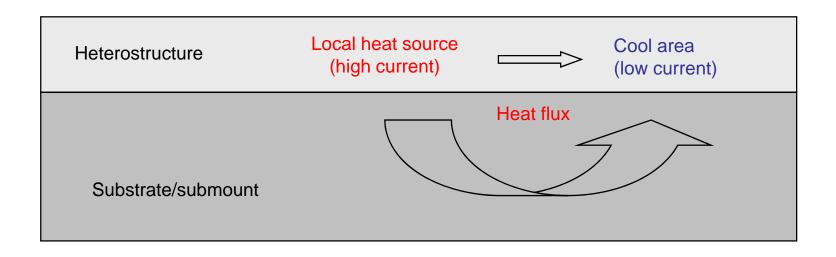


How to simulate with SpeCLED? What project type is needed?

Vertical chip without substrate: Easy and straightforward in setup, but incorrect for the heat transfer problem



Substrate or submount to be included into heat transfer computation for correct computation of the lateral heat transfer!!!

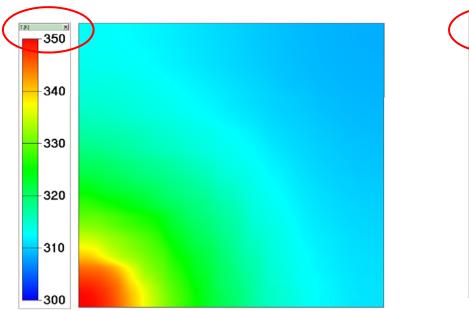


Because of much higher thickness (~50 times), substrate provides better opportunity for lateral heat spreading even if the heat conductivity of the substrate material is lower than that of the heterostructure.



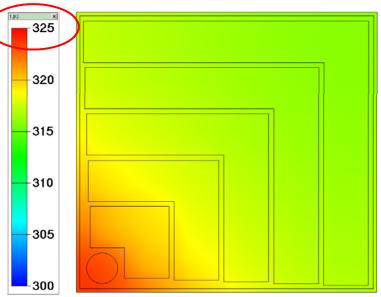
The local overheating of the high-current regions is dramatically overestimated in computations without

substrate



Without substrate

With substrate



Local overheated is two times overestimated!!!

