## HW12: Poisson-Continuity Solver

20171057

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#### Introduction and Approach

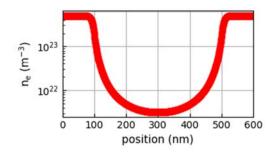
수업시간에 언급한 long model 과 short 모델에 대해 x sample spacing 이 각각 long(0.5nm, 1nm, 10nm), short(0.2nm, 1nm, 5nm)으로 설정하여 Poisson-Continuity 를 풀어보았다. Self-consistent result 와 non-linear Poisson solver 로 부터의 결과를 비교하여 spacing 에 따라 maximum error 가 얼마인지 살펴보았다.

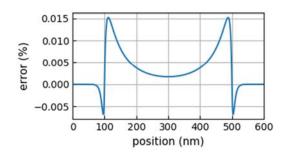
#### Results

#### Long model

0.5 nm

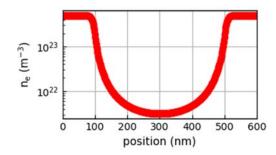
#### Poisson-Continuity:long/0.5

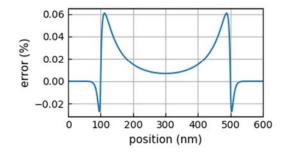




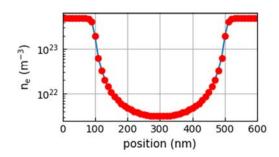
1.0 nm

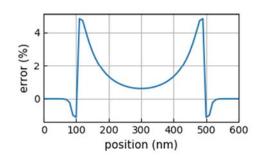
### Poisson-Continuity: long/1.0





## Poisson-Continuity:long/10.0

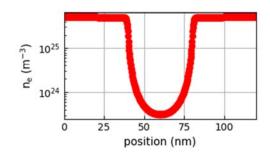


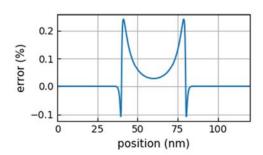


#### Short model

0.2 nm

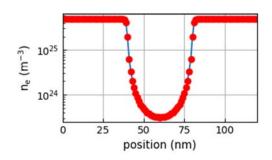
## Poisson-Continuity:short/0.2

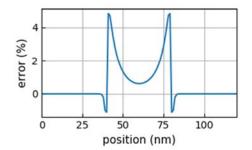




1.0 nm

## Poisson-Continuity:short/1.0





# Poisson-Continuity :short/5.0

