## $\begin{array}{c} {\rm Homework}\ \#11 \\ {\rm Computational}\ {\rm Microelectronics} \end{array}$

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Due on November 19, 2018

## 1 Results

We have solved the Boltzmann transport equation (BTE) in a 1D system in the lectrue 17. We set the relaxation time  $\tau=10^{-6}$  second and change H from 0.1 to 1 with the grid of size 0.01. Fig. 1 shows  $f_0$  and Fig. 2 shows  $f_1$ .  $f_0$  decays to 0 as H increases.  $f_1$  shows some singular behavior at small H.

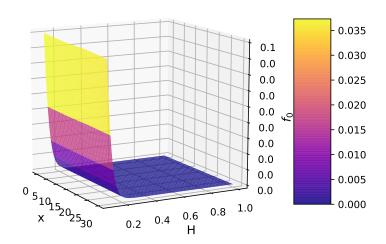


Figure 1:  $f_0$  from the BTE.

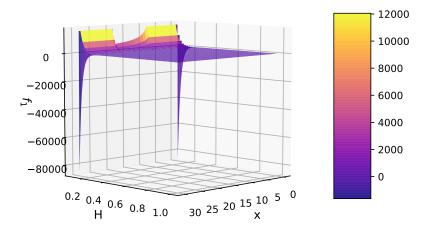


Figure 2:  $f_1$  from the BTE.