
Electric Field:
500000

Force
8.0109e-14

Acceleration
3.3823e+17

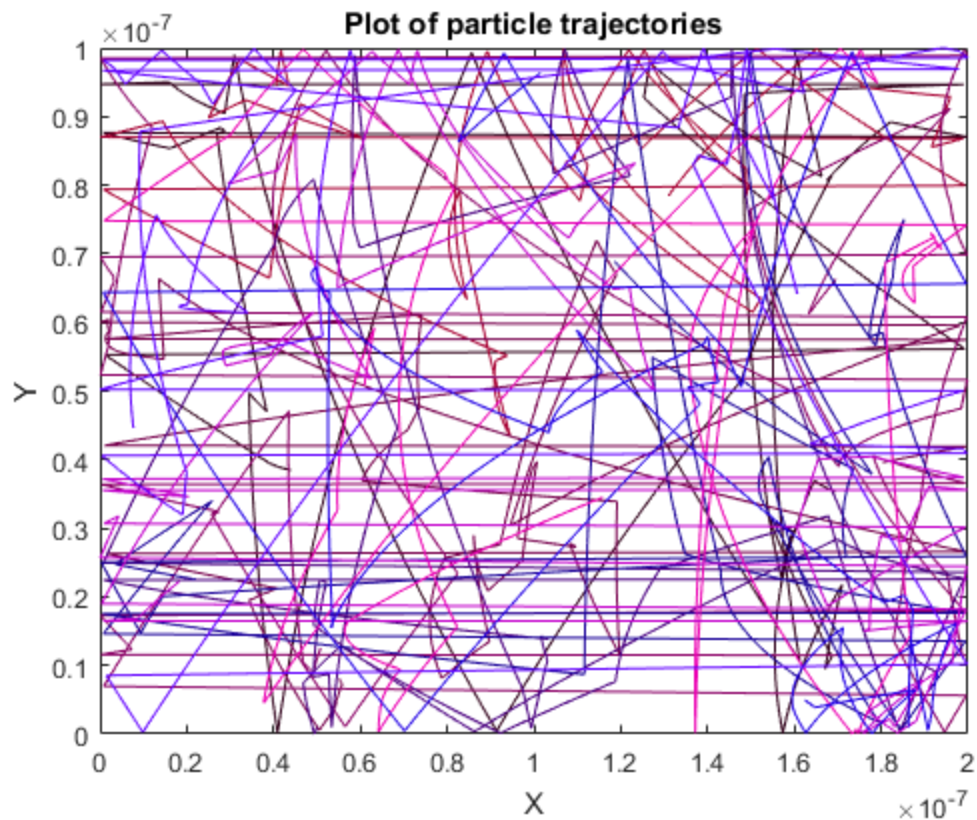
$current = q \cdot n \cdot \mu \cdot E / area$

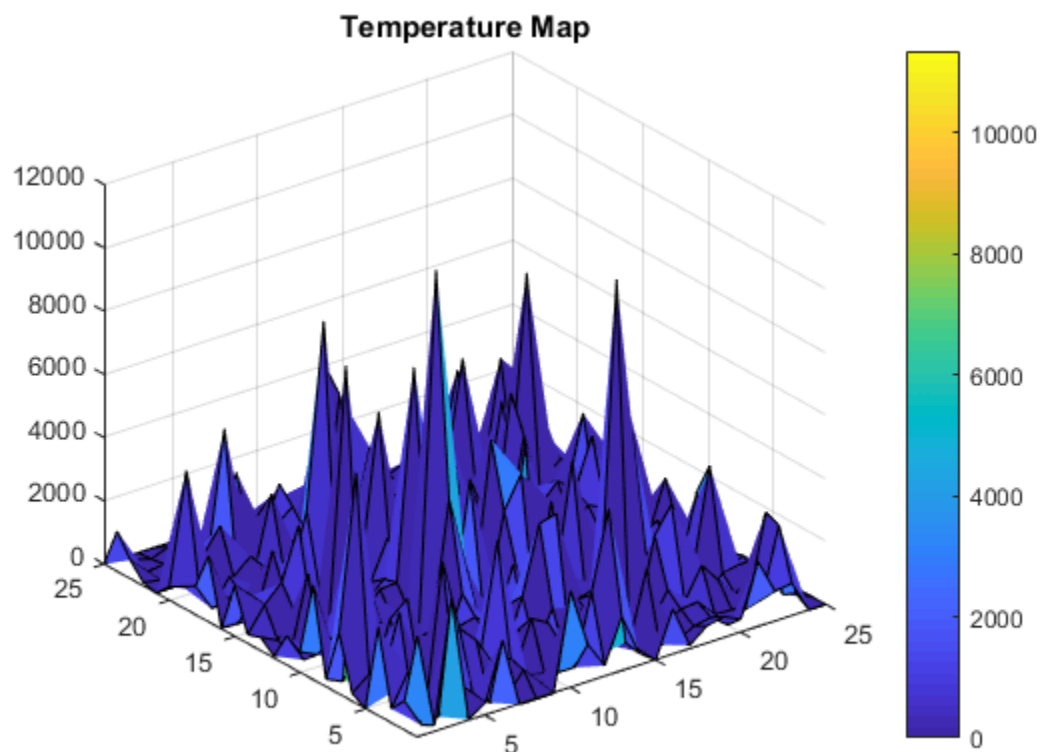
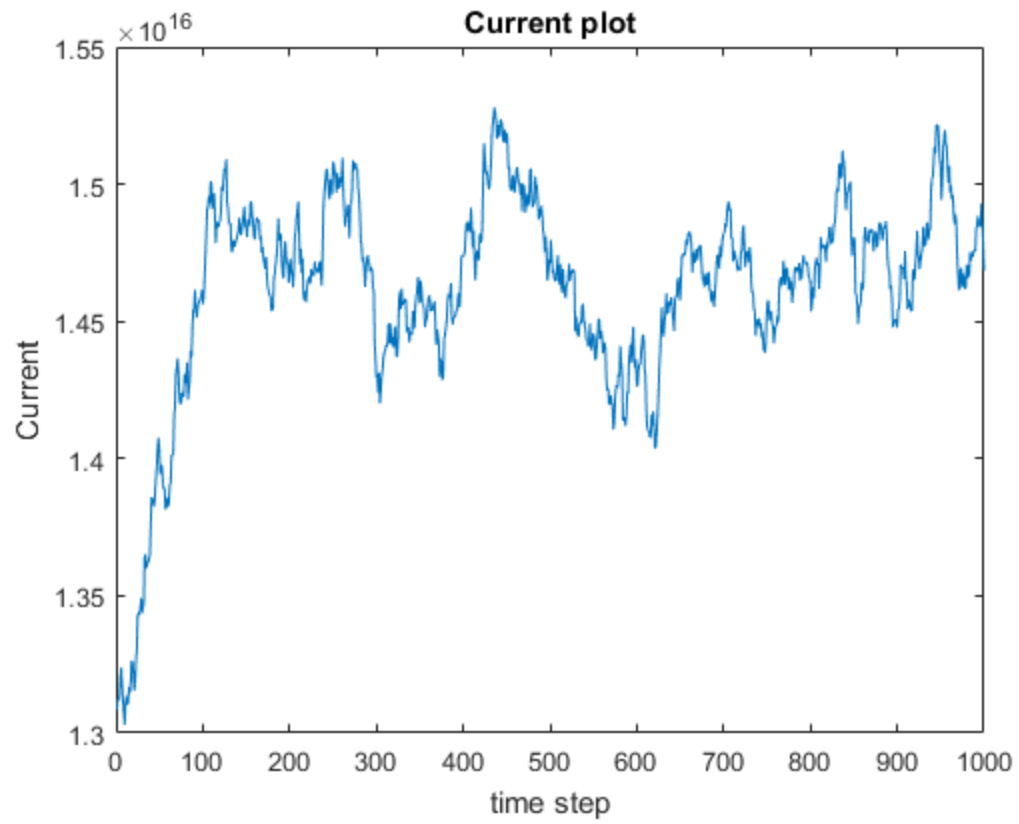
part3(b): The density plot shows that the electrons are getting caught at the entrance to the bottleneck.

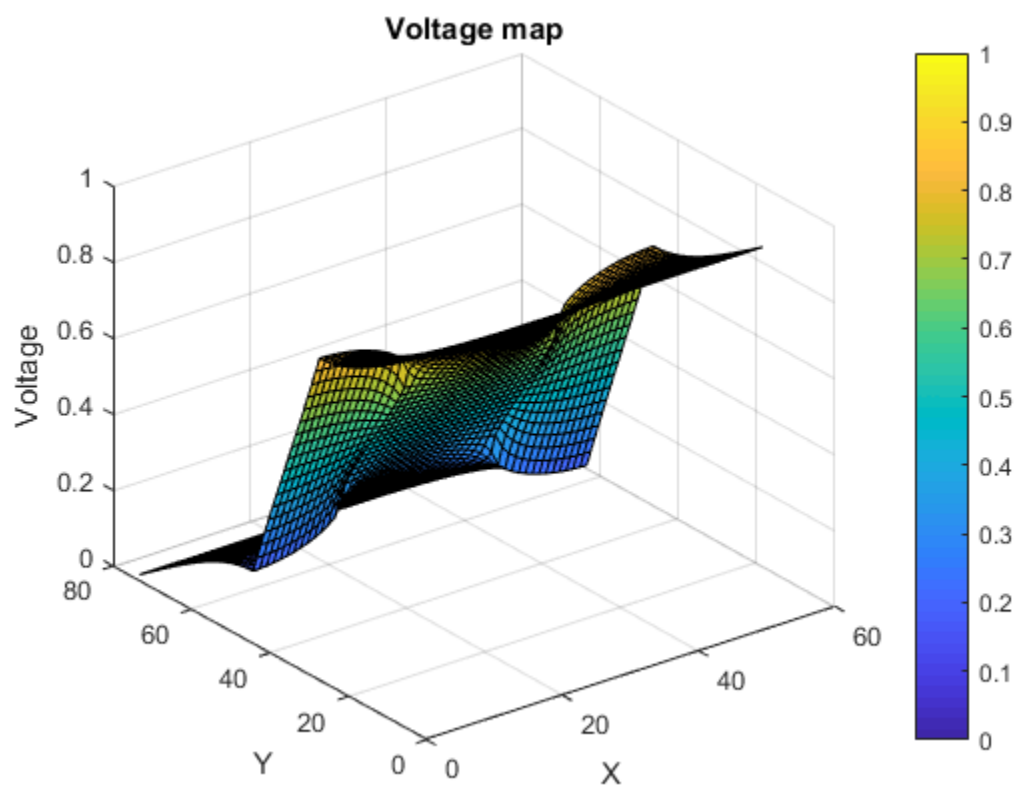
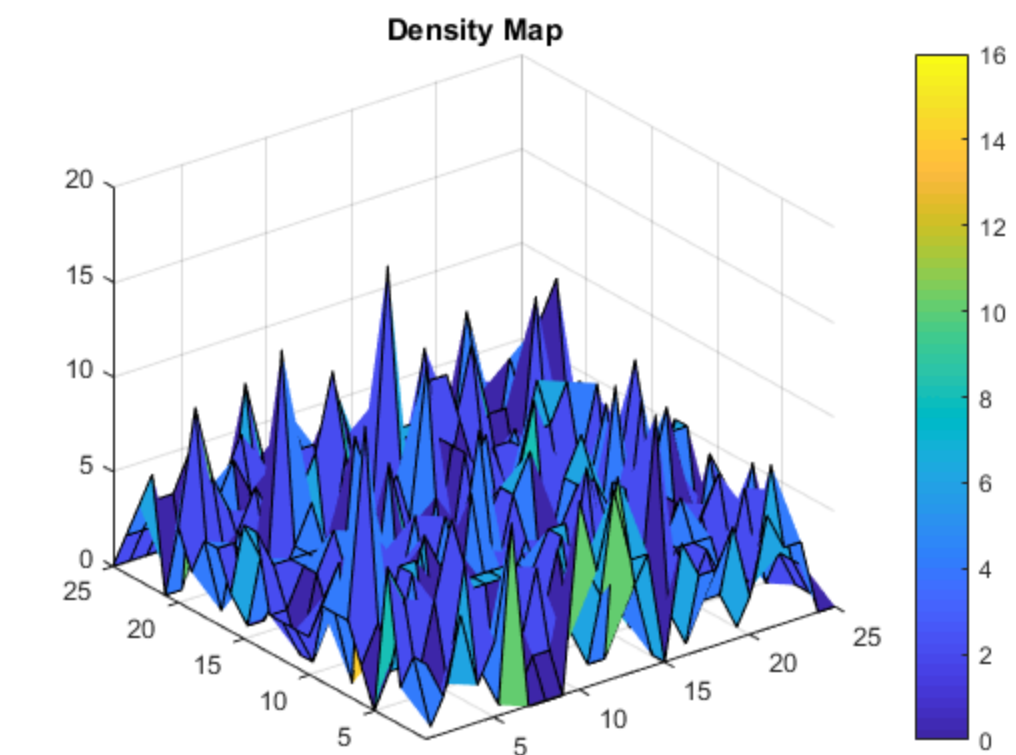
Which makes a sense in terms of the relation to the electric field pushing them towards the region

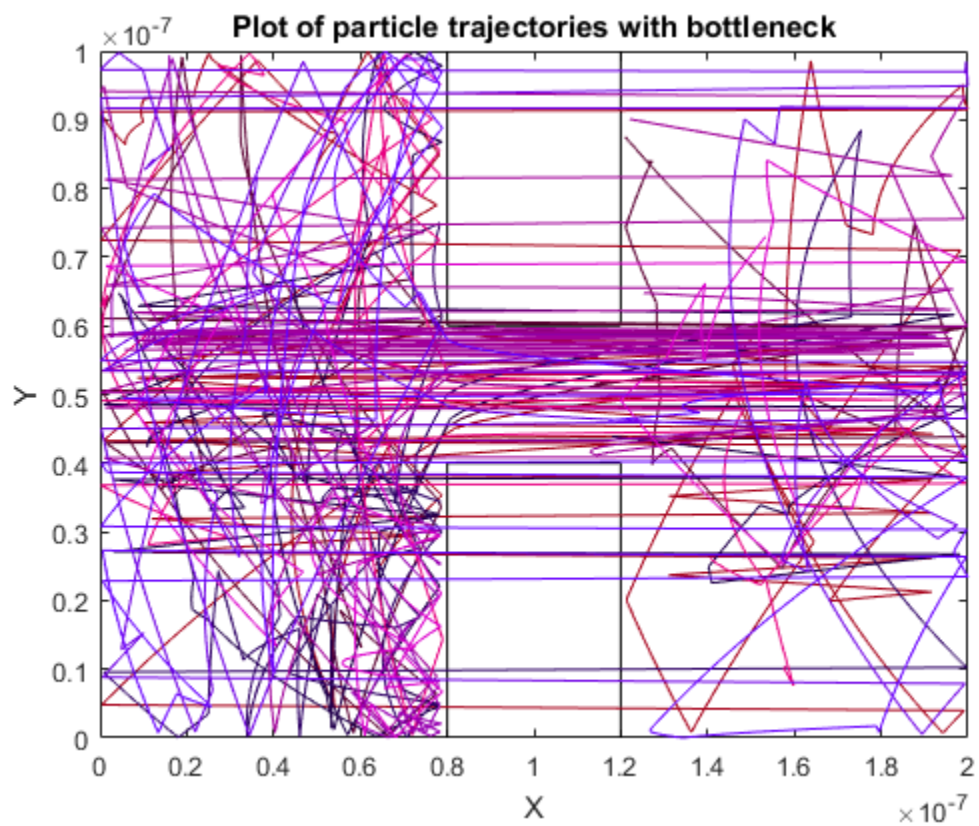
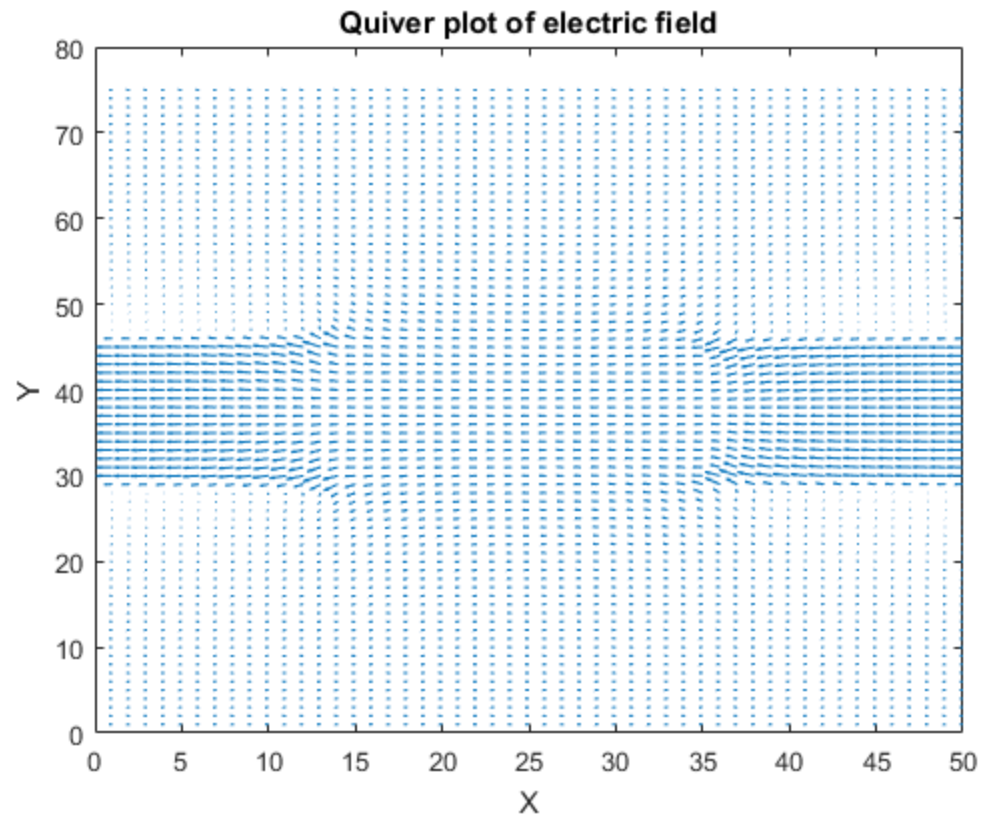
and then subsequently being bounced away from it. It only ends up leaving this loop once it eventually gets to the bottleneck opening

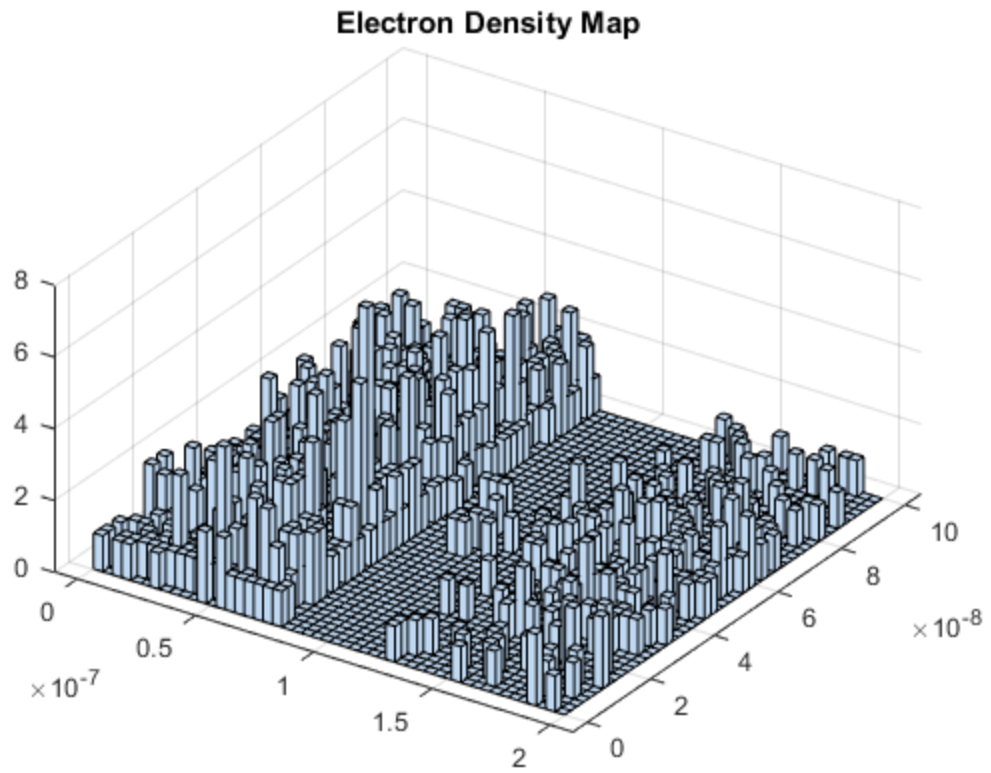
part3(c): The next step of this program, to make it more accurate, is to raise the resolution of the G matrix











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