

In [ ]:

```
from vpython import *

# Parameter values
N = 200      # Number of individual charges
Q = 5e-6     # Net charge, in Coulombs
L = 0.10     # Length of conducting cube, in meters
dt = 0.001   # Time step, in seconds
K = 8.99e9   # Coulomb constant

q = Q/N      # Charge for each individual charge

scene = canvas()
scene.range = 1.5*L
scene.forward = vec(-1,-1,-1)

box(pos=vector(0,0,0), axis=vector(1,0,0), size=vector(L,L,L), color=color.white,
    , opacity = 0.5 )

charges = [] # Empty array of charges, to be filled below

# Create charges with random initial positions, initially at rest:
for i in range(N):
    position = L/2 * vec.random()
    charge = sphere(pos=position, radius = 0.01*L, color=color.red) # Random position
    charge.velocity = vec(0,0,0) # Initially at rest
    charges.append(charge)

# Function to compute forces & update positions
def computeForces():
    global charges
    N = len(charges)
    for i in range(N):
        charge_i = charges[i]
        F_net = vec(0,0,0) # Will sum up force. First set to zero.
        r_i = charge_i.pos
        for j in range(N):
            if i == j: continue # A charge doesn't interact with itself
            charge_j = charges[j]
            r_j = charge_j.pos
            r_vector = r_i - r_j
            r = mag(r_vector)
            F = K*q*q/r**2 * (r_vector/r)
            F_net = F_net + F

    # Will use the limit of large friction, where force --> displacement
    displacement = F_net
    if mag(displacement) > L/100: # Don't allow a huge displacement:
        displacement = (L/100) * displacement / mag(displacement)
```

*# Update the position of the charge using the displacement above:*

`charge_i.pos = charge_i.pos + displacement`

*# (COMPLETED) FUNCTION THAT NEEDS TO BE FILLED IN BY THE STUDENTS:*

**def** computeEfield(P):

*''' Computes the total electric field at point P, which is a 3D vector.  
YOU WILL NEED TO COMPLETE THIS FUNCTION!! '''*

**global** charges

N = `len`(charges)

*# E\_net will be computed from a summation, so it is first set to zero*

`E_net = vec(0,0,0)`

*# Loop through all charges in order to compute the net E field*

**for** charge **in** charges:

`r_vector = P - charge.pos` *# vector between charge & point P*

`r = mag(r_vector)` *# "r" is the magnitude of the r vector*

`E = 1e-6 * K*q/r**2 * (r_vector/r)` *# The E field from this ONE charge*

`E_net = E_net + E` *# Computes the running sum, E\_net*

**return** `E_net` *# This sends the computed value back to the main loop*

`P = vec(0.5, 0, 0)`

`t = 0` *# Start the timer at t = 0*

**while** **True**:

`rate(100)` *# Sets maximum frame rate to 100 frames per second*

`scene.forward = vec(-1,-1,-1)`

*# Compute all forces on all charges & update positions*

`computeForces()`

*# Don't let the charges leave the conductor*

**for** charge **in** charges:

**if** `charge.pos.x < -L/2`:

`charge.pos.x = -L/2`

**if** `charge.pos.x > +L/2`:

`charge.pos.x = +L/2`

**if** `charge.pos.y < -L/2`:

`charge.pos.y = -L/2`

**if** `charge.pos.y > +L/2`:

`charge.pos.y = +L/2`

**if** `charge.pos.z < -L/2`:

`charge.pos.z = -L/2`

**if** `charge.pos.z > +L/2`:

`charge.pos.z = +L/2`

`t = t + dt`

*# Update the value of time*

```
E_net = computeEfield(P) # After updating positions, compute E using your fu  
nction  
  
# Print the numerical value of |E| in microCoulombs  
print('At P =', P, 'meters, |E| =', mag(E_net), 'N/uC')
```

At P = <0.5, 0, 0> meters,	E  = 0.18111554745349664 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.18108515022108798 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.18105836838606473 N/uC
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At P = <0.5, 0, 0> meters,	E  = 0.17971851523410204 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971849732596892 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971847957186565 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971846196920677 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971844451546073 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971842720814793 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971841004484065 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971839302316134 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971837614078123 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.1797183593954197 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971834278484275 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971832630686263 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.1797183099593362 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971829374016468 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971827764729142 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.1797182616787022 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971824583242413 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971823010652385 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971821449910813 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.1797181990083216 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971818363234643 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971816836940221 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971815321774418 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.1797181381756627 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971812324148317 N/uC

At P = <0.5, 0, 0> meters,	E  = 0.17971810841356445 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971809369029826 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.179718079070109 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971806455145264 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.1797180501328162 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971803581271695 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971802158970207 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971800746234773 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.1797179934292583 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971797948906656 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.1797179656404319 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971795188204143 N/uC
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At P = <0.5, 0, 0> meters,	E  = 0.17971791113558747 N/uC
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At P = <0.5, 0, 0> meters,	E  = 0.17971787115649376 N/uC
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At P = <0.5, 0, 0> meters,	E  = 0.17971783191330706 N/uC
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At P = <0.5, 0, 0> meters,	E  = 0.17971780614531943 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971779337640437 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971778068285163 N/uC
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At P = <0.5, 0, 0> meters,	E  = 0.17971775551788066 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.179717743044535 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971773064269542 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971771831144506 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.1797177060498843 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.1797176938571313 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971768173232183 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971766967460798 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971765768315856 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971764575715868 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971763389580864 N/uC
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At P = <0.5, 0, 0> meters,	E  = 0.17971761036393893 N/uC
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At P = <0.5, 0, 0> meters,	E  = 0.1797175186728924 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971750747414822 N/uC
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At P = <0.5, 0, 0> meters,	E  = 0.17971747421251597 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971746323480703 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971745231086148 N/uC

At P = <0.5, 0, 0> meters,	E  = 0.17971744144010374 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.1797174306219692 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.1797174198559033 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.179717409141362 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.1797173984778121 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971738786472946 N/uC
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At P = <0.5, 0, 0> meters,	E  = 0.17971730471715264 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971729453624383 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971728440106657 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.1797172743111936 N/uC
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At P = <0.5, 0, 0> meters,	E  = 0.1797172147003558 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.1797172049162693 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971719517433046 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971718547417592 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971717581544774 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971716619779454 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971715662087107 N/uC
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At P = <0.5, 0, 0> meters,	E  = 0.17971713758786112 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971712813111315 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971711871377133 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971710933551888 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971709999604407 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971709069504038 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.1797170814322064 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971707220724598 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971706301986726 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.1797170538697836 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971704475671277 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.1797170356803773 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.1797170266405042 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.1797170176368245 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971700866907395 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971699973699204 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971699084032275 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971698197881358 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971697315221638 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971696436028672 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971695560278356 N/uC
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At P = <0.5, 0, 0> meters,	E  = 0.1797169381901127 N/uC

At P = <0.5, 0, 0> meters,	E  = 0.17971692953448132 N/uC
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At P = <0.5, 0, 0> meters,	E  = 0.17971684478484015 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971683648593875 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971682821824966 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971681998158168 N/uC
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At P = <0.5, 0, 0> meters,	E  = 0.17971680360055792 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971679545583275 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971678734138993 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971677925705107 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971677120263926 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.1797167631779807 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971675518290334 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971674721723746 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971673928081527 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971673137347138 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971672349504186 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971671564536498 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971670782428162 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971670003163323 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971669226726433 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971668453102044 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971667682274925 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971666914230006 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.1797166614895239 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971665386427332 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971664626640255 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971663869576762 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971663115222564 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.1797166236356356 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.1797166161458582 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971660868275482 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971660124618904 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971659383602548 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971658645213004 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971657909436983 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971657176261385 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971656445673195 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971655717659532 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971654992207617 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.1797165426930483 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.1797165354893862 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971652831096624 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.1797165211576651 N/uC

At P = <0.5, 0, 0> meters,	E  = 0.17971651402936084 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.1797165069259327 N/uC
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At P = <0.5, 0, 0> meters,	E  = 0.1797164927932276 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971648576371393 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971647875860383 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971647177778133 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.1797164648211318 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.1797164578885413 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971645097989697 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.1797164440950868 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971643723399963 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971643039652532 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.1797164235825542 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.1797164167919778 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971641002468816 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971640328057853 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971639655954252 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971638986147465 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971638318627034 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.1797163765338256 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971636990403705 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971636329680224 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.1797163567120195 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.1797163501495874 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.1797163436094057 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971633709137438 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17971633059539452 N/uC

In [2]:

In [3]:

In [ ]:



At P = <0.5, 0, 0> meters,	E  = 0.18042074887768736 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.18040753768332893 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.1803909959810422 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.18037189684607077 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.18035146781316813 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.18032868661104307 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.18031470502405209 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.18030134348238808 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.18028342644015838 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.18026107581483108 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.18023679032069576 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.1802199746605802 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.18020589111690352 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.18019321370539135 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.1801908575858455 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.18019063805475924 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.1801849832431863 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.18017870291377447 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.1801679358871194 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.18015836984413275 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.1801456526470697 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.18013219962635707 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.1801214907513603 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.1801145913219563 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.18010529282271837 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.18008510222682983 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.18006341571287865 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.18004277338683797 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.18002133348991822 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17999804835685865 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17997405543635178 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17994940258133257 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.1799261799682195 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17990547879139598 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17988839156681205 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17987417542371406 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17986680909278696 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.1798576633024128 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17984978595018436 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17984407661436844 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17984171454897427 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.1798427783096521 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17984471650567727 N/uC

Exception ignored in: <function GCCollector.\_\_init\_\_.<locals>.\_cb at 0x1135bc488>

Traceback (most recent call last):

File "/usr/local/lib/python3.7/site-packages/prometheus\_client/gc\_collector.py", line 50, in \_cb

def \_cb(phase, info):

KeyboardInterrupt

At P = <0.5, 0, 0> meters,	E  = 0.17984528296429605 N/uC
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At P = <0.5, 0, 0> meters,	E  = 0.17984442823183974 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.179843979604007 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17984283893350447 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17984096119083334 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17983935785739763 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17983571284027758 N/uC
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At P = <0.5, 0, 0> meters,	E  = 0.17982581274481346 N/uC
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At P = <0.5, 0, 0> meters,	E  = 0.17979249589429985 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.1797872832433855 N/uC
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At P = <0.5, 0, 0> meters,	E  = 0.17966503917901677 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17966507284559904 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17966510633201938 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17966513962995725 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.1796651727316819 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17966520563002508 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.1796652383183559 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17966527079055747 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17966530304100045 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.1796653350645218 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17966536685640078 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17966539841233722 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.1796654297284303 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17966546080115772 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17966549162735532 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.1796655222041975 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.179665552529179 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17966558260009613 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17966561241502835 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17966564197232224 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17966567127057428 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17966570030861473 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.1796657290854917 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.179665757600457 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17966578585295007 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.17966581384258482 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.1796658415691346 N/uC
At P = <0.5, 0, 0> meters,	E  = 0.1796658690325204 N/uC

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