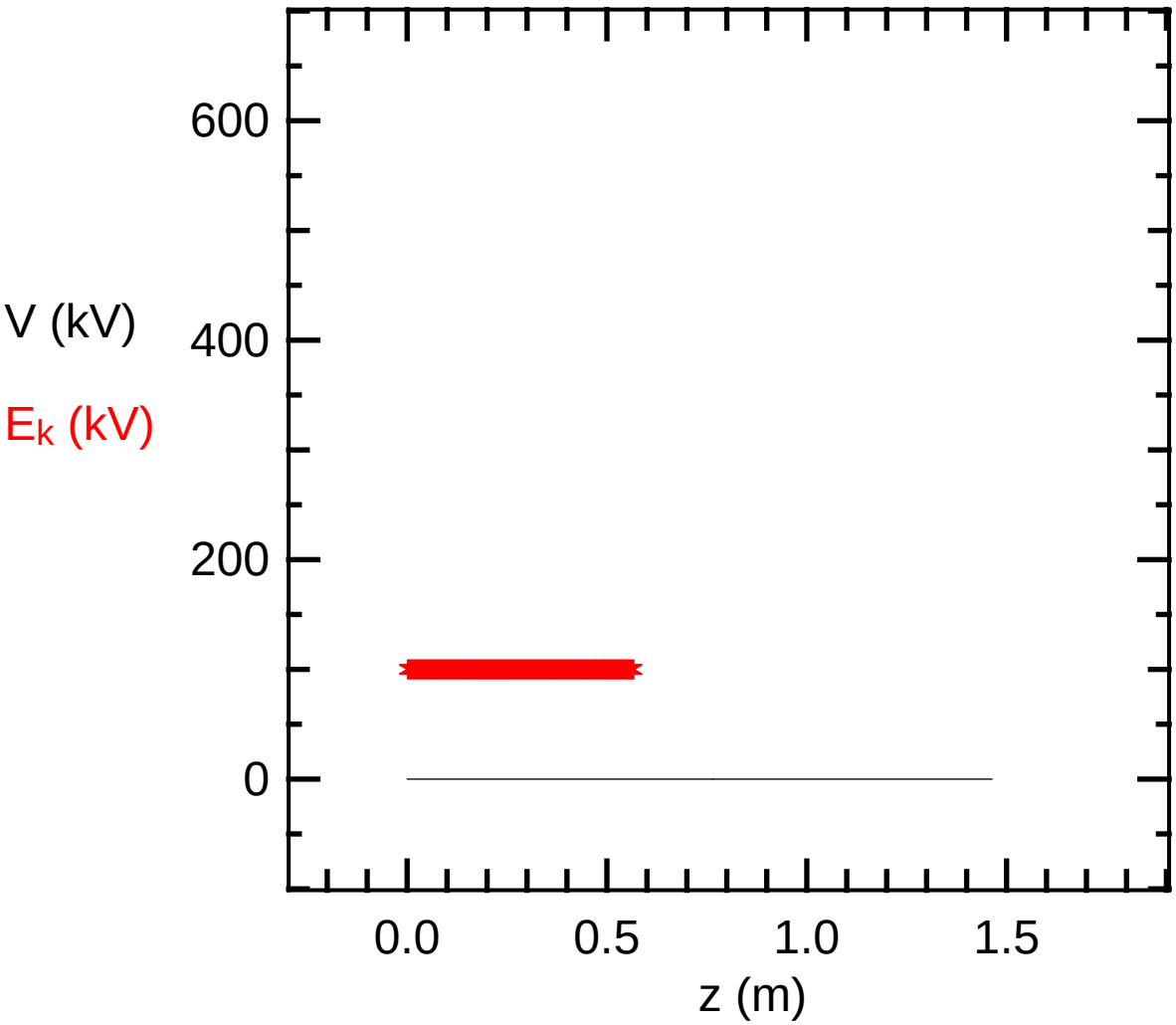
```
nn    =  483   nodes
s     =    0.003 meters
l0    =   0.6000 microHenrys
c0    =   0.8923 picoFarads
cs    =   0.0000 picoFarads
rt    =    820.0 Ohms
v0    =    200.0 kV
dt    =    0.010 ns
wtype = tent
trise =    73.00 ns
tmain =    60.00 ns
tfall =    73.00 ns
rwire = 1.270e−03 m
rhelix = 6.000e−02 m     rwall = 1.000e−01 m
mutmult = 0.000e+00
ionmass =     7.00 amu
taupulse =   342.00 ns
tinject =  −171.00 ns

ib0 =   0.0000 A            btype = Flat
vinject = 1.660e+06       v(com) = 1.660e+06 m/s
einject = 1.000e+02       e(com) = 1.000e+02 keV
vthermal / v(com) = 0.000e+00
vwave0 = 4.100e+06 m/s
imped0 = 8.200e+02 Ohms
```

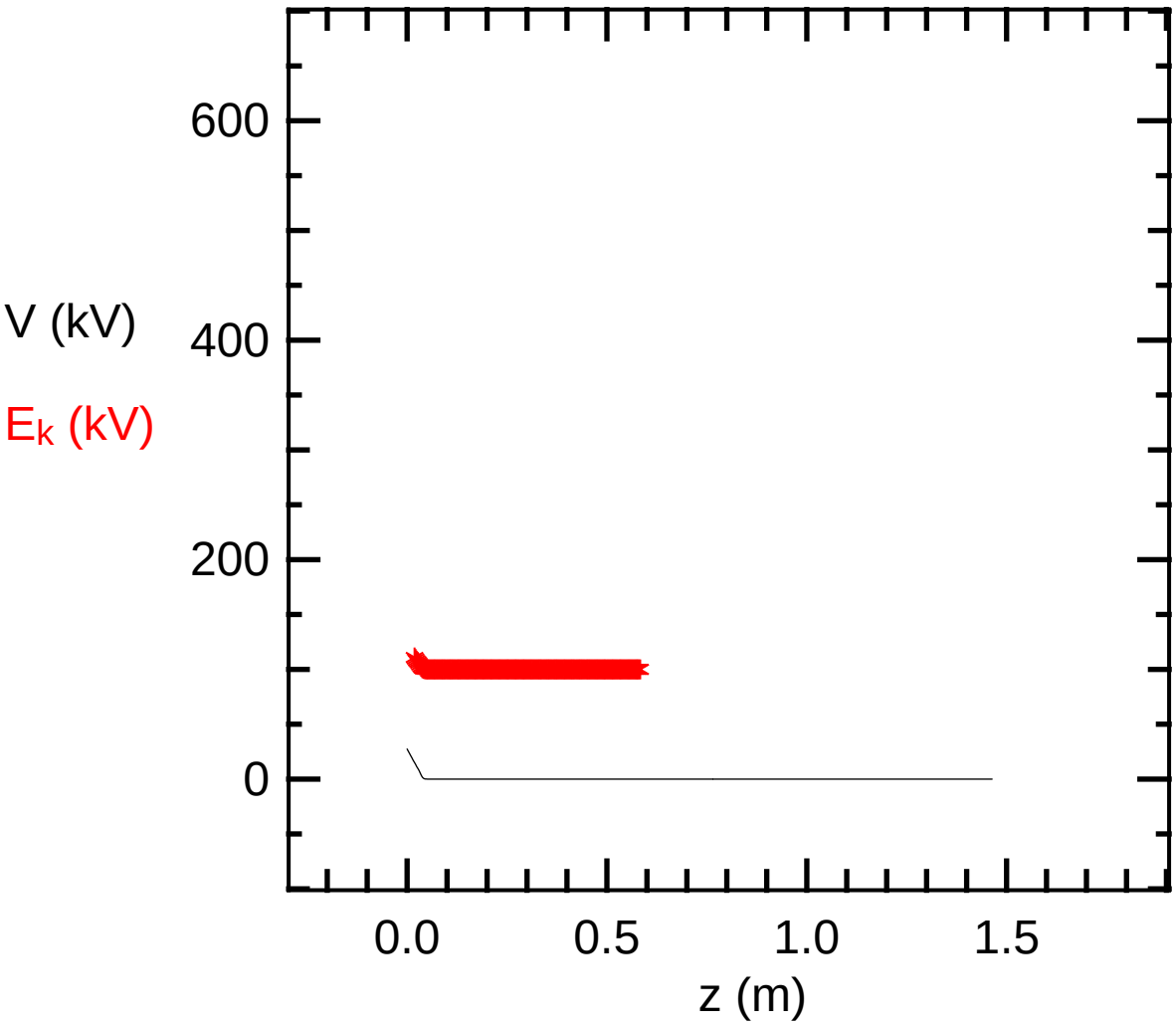
```
it =       0
time =    0.000 ns
z(com) =    0.284 m
2*RMS beam duration =  197.451 ns
2*RMS beam length =   32.783 cm

codeid =  twa−ba
time stamp = Thu Apr 12 18:12:11 2007
```



it = 0

time = 0.000 ns

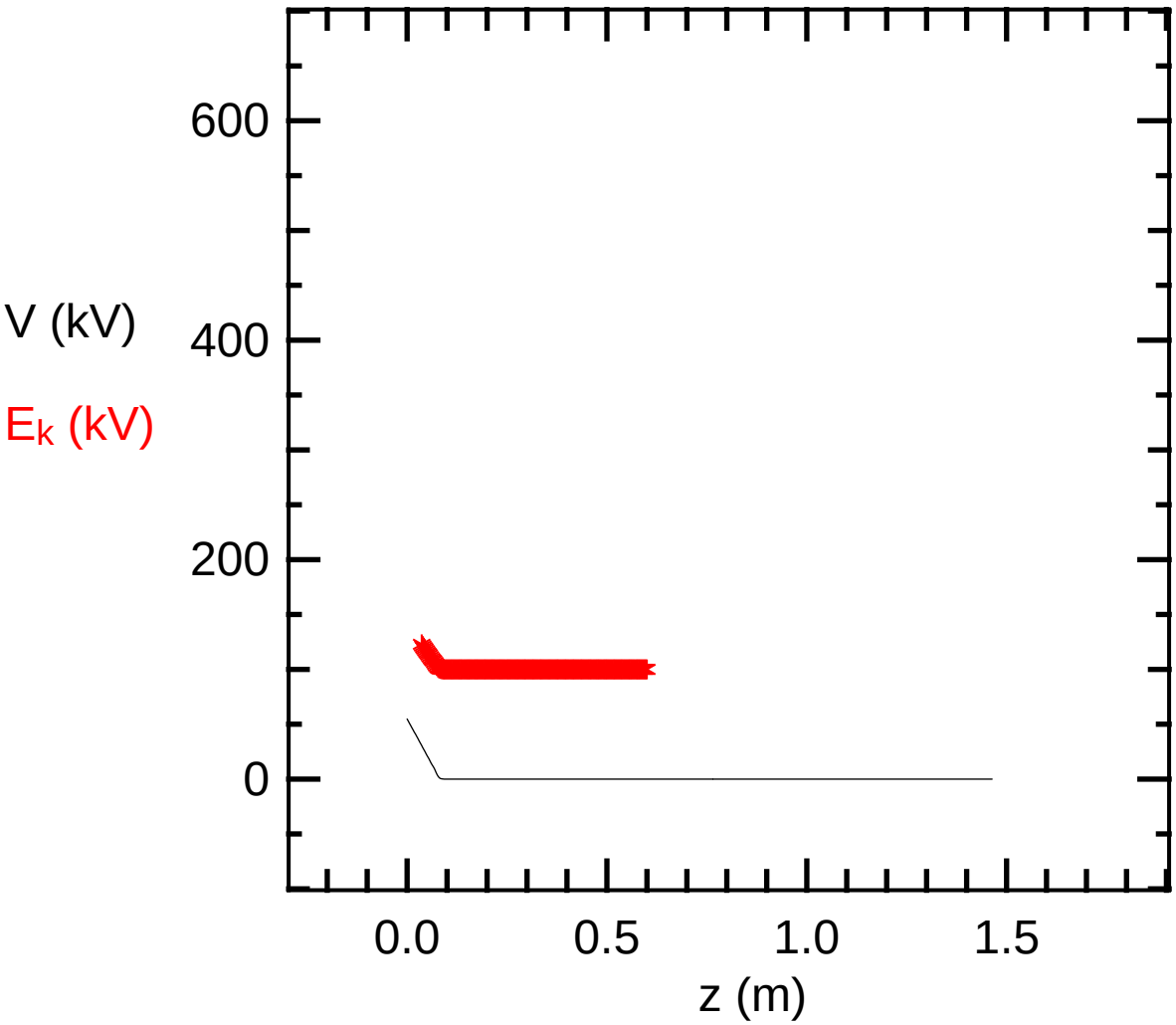
bunching factor = 1.000



it = 1000

time = 10.000 ns

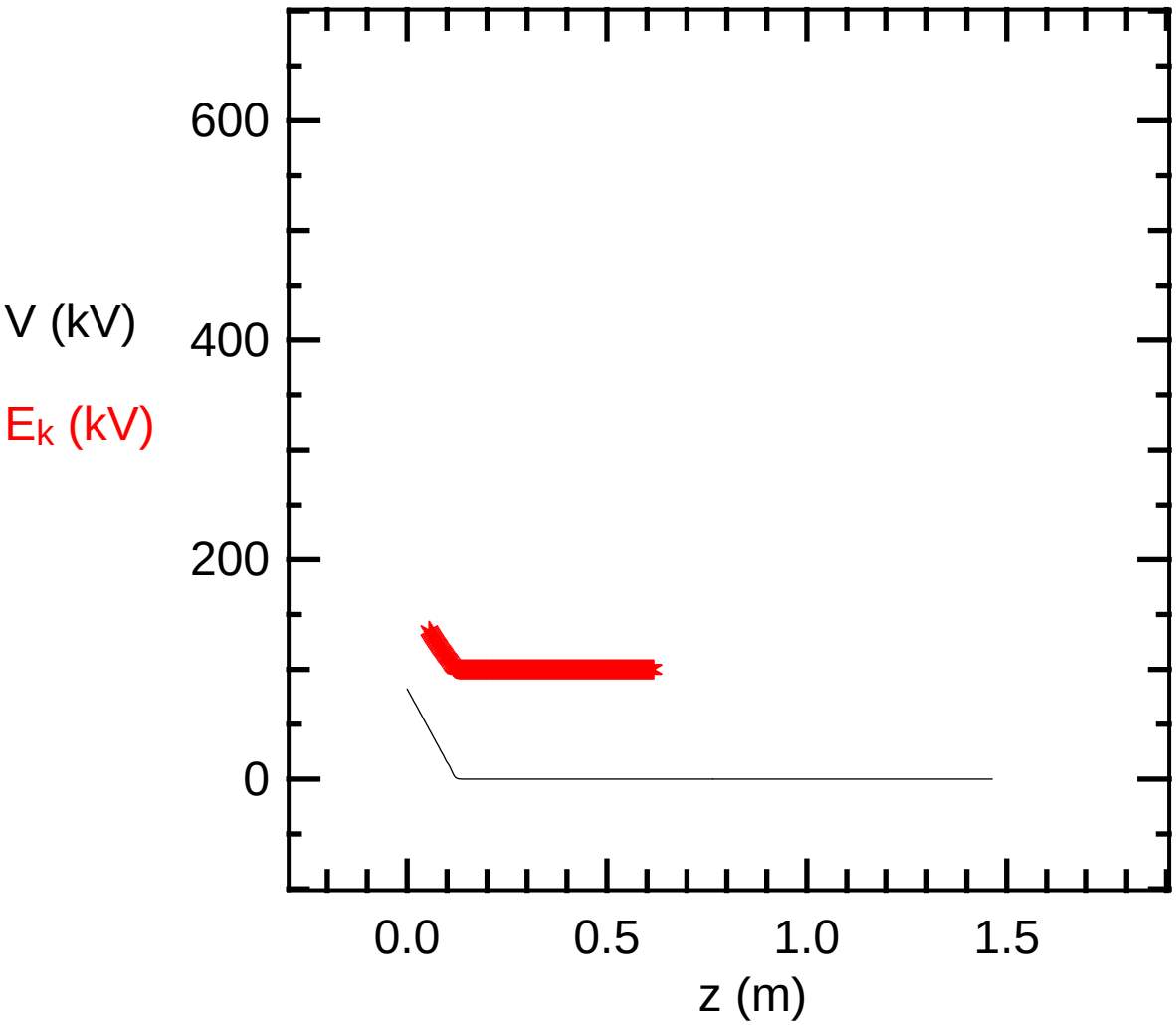
bunching factor = 1.001



it = 2000

time = 20.000 ns

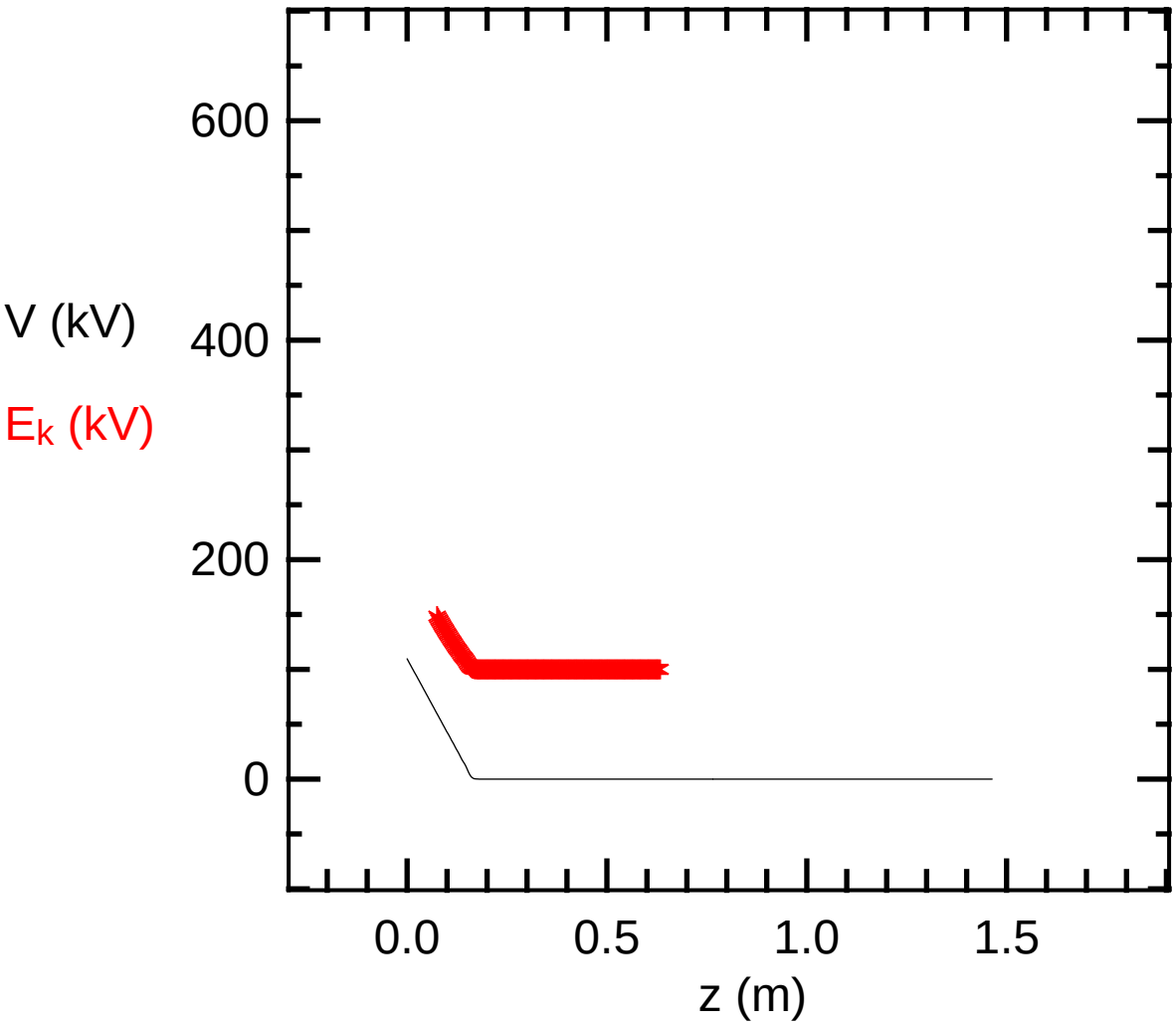
bunching factor = 1.003



it = 3000

time = 30.000 ns

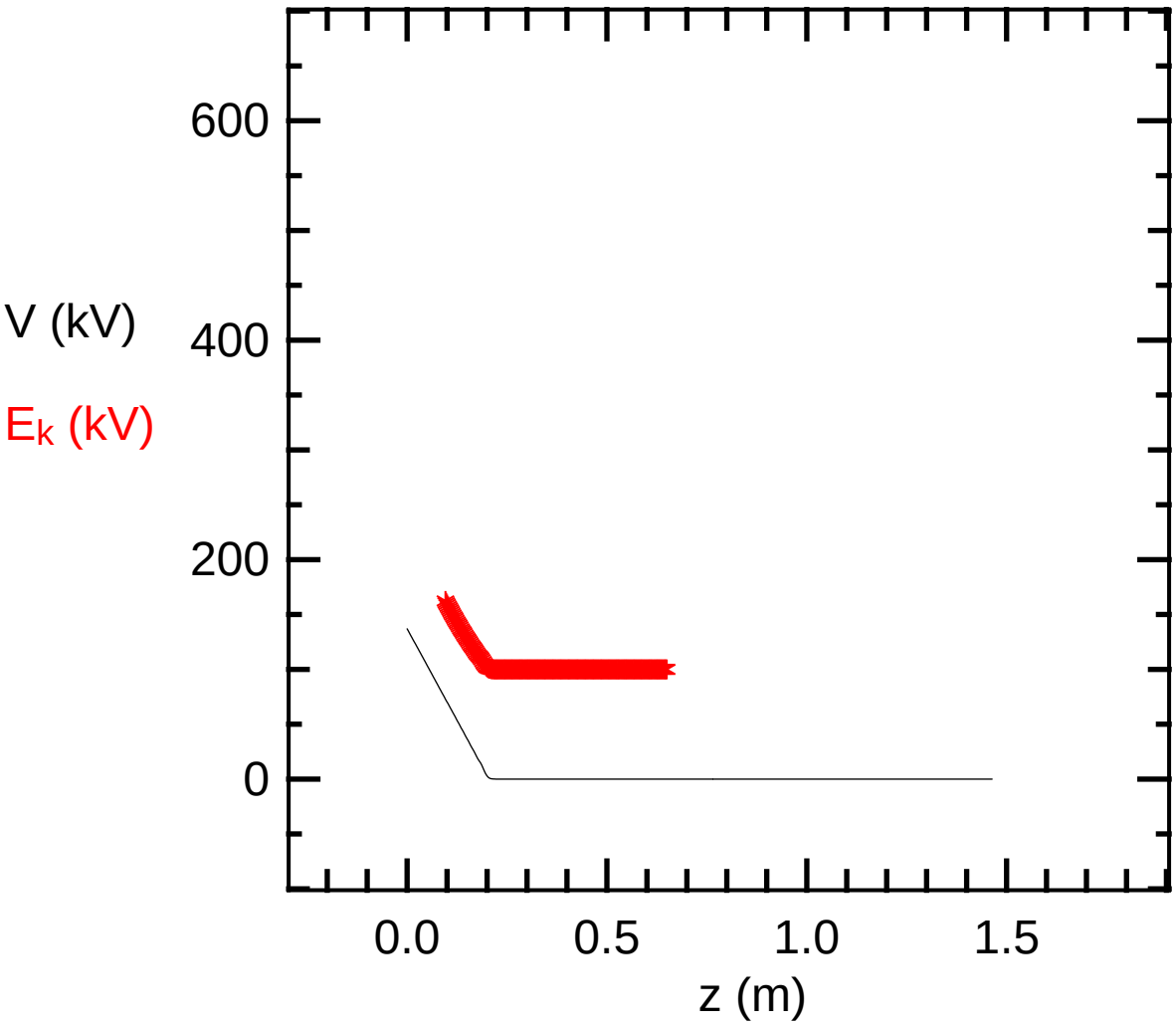
bunching factor = 1.007



it = 4000

time = 40.000 ns

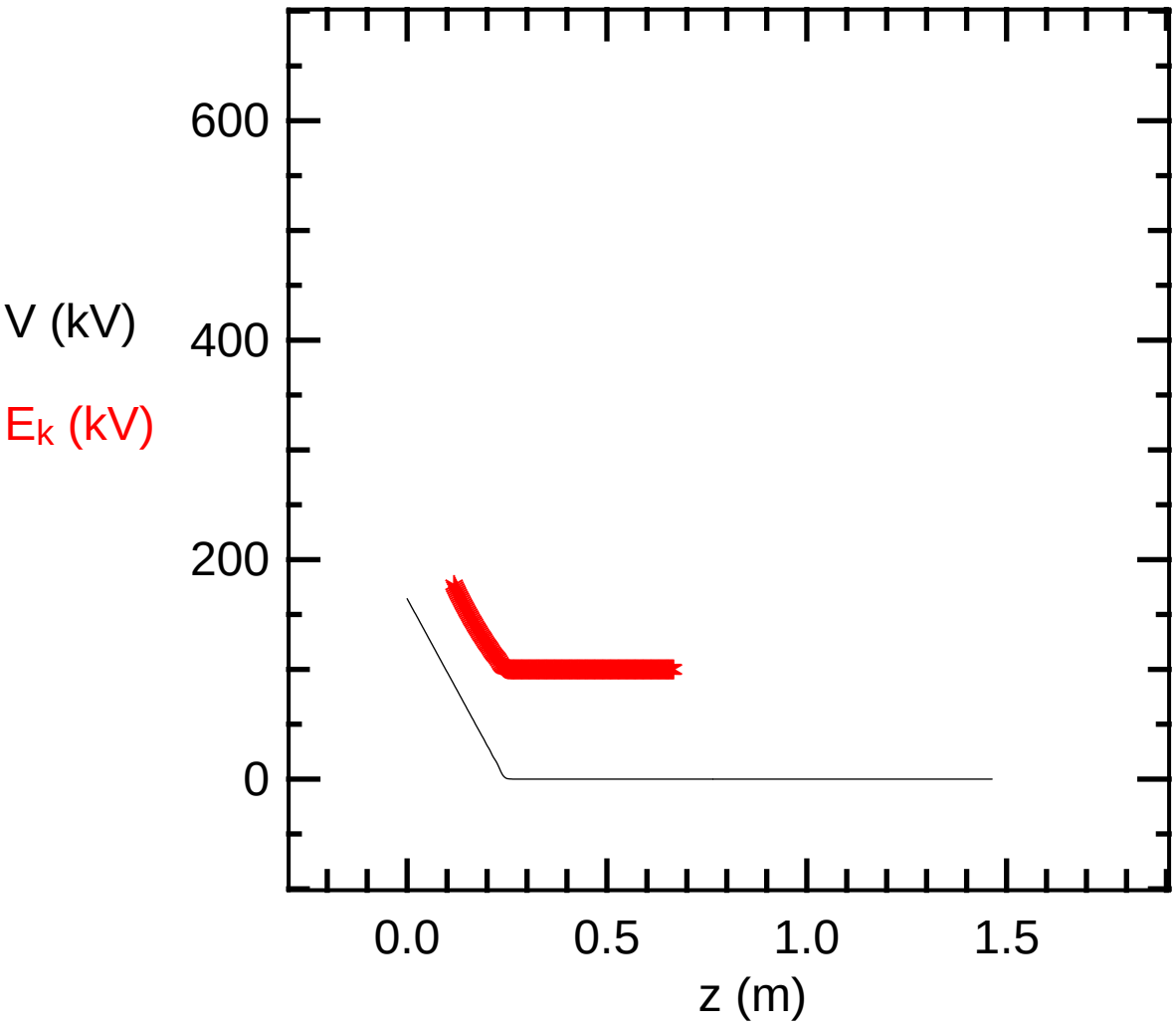
bunching factor = 1.013



it = 5000

time = 50.000 ns

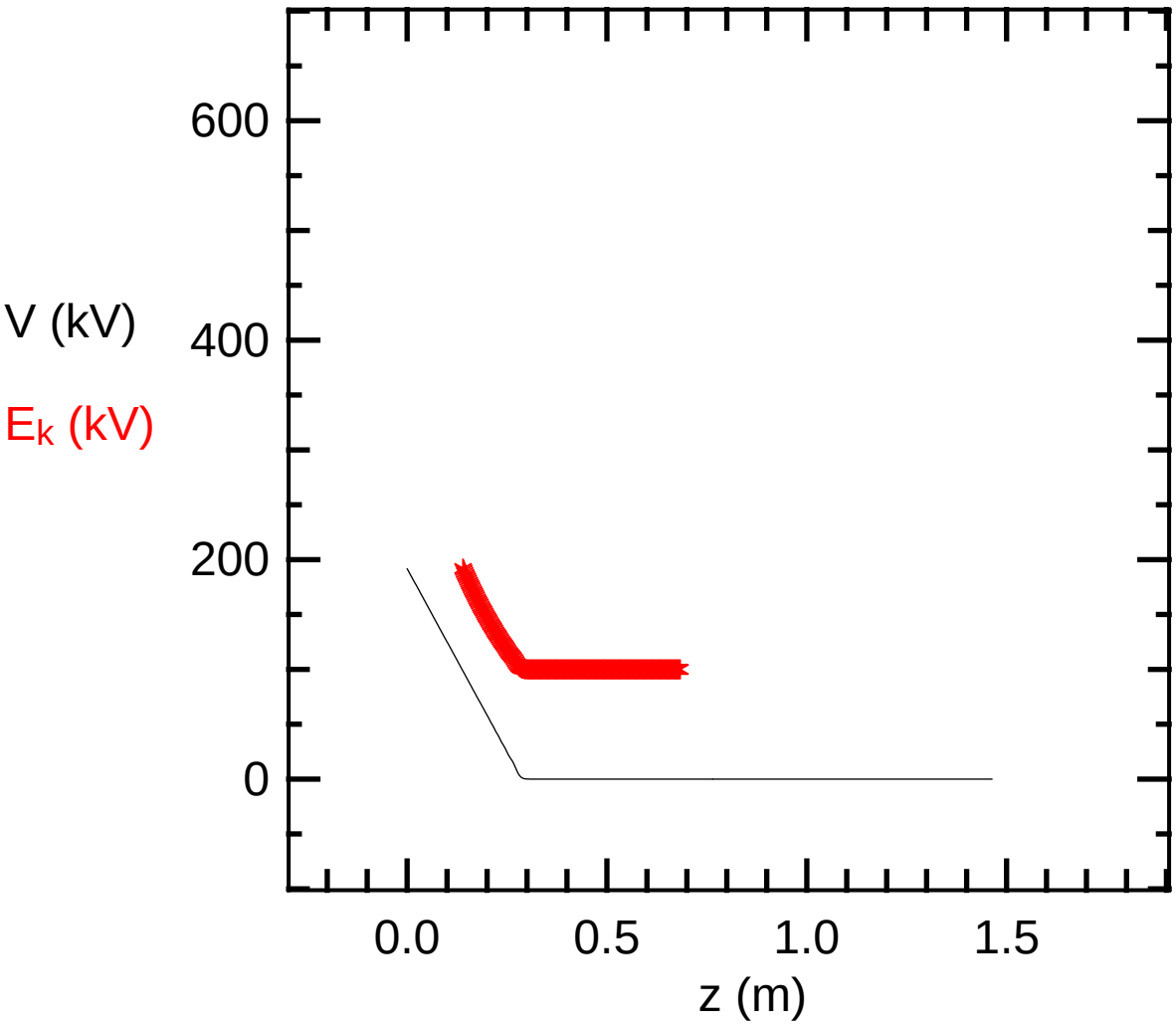
bunching factor = 1.020



it = 6000

time = 60.000 ns

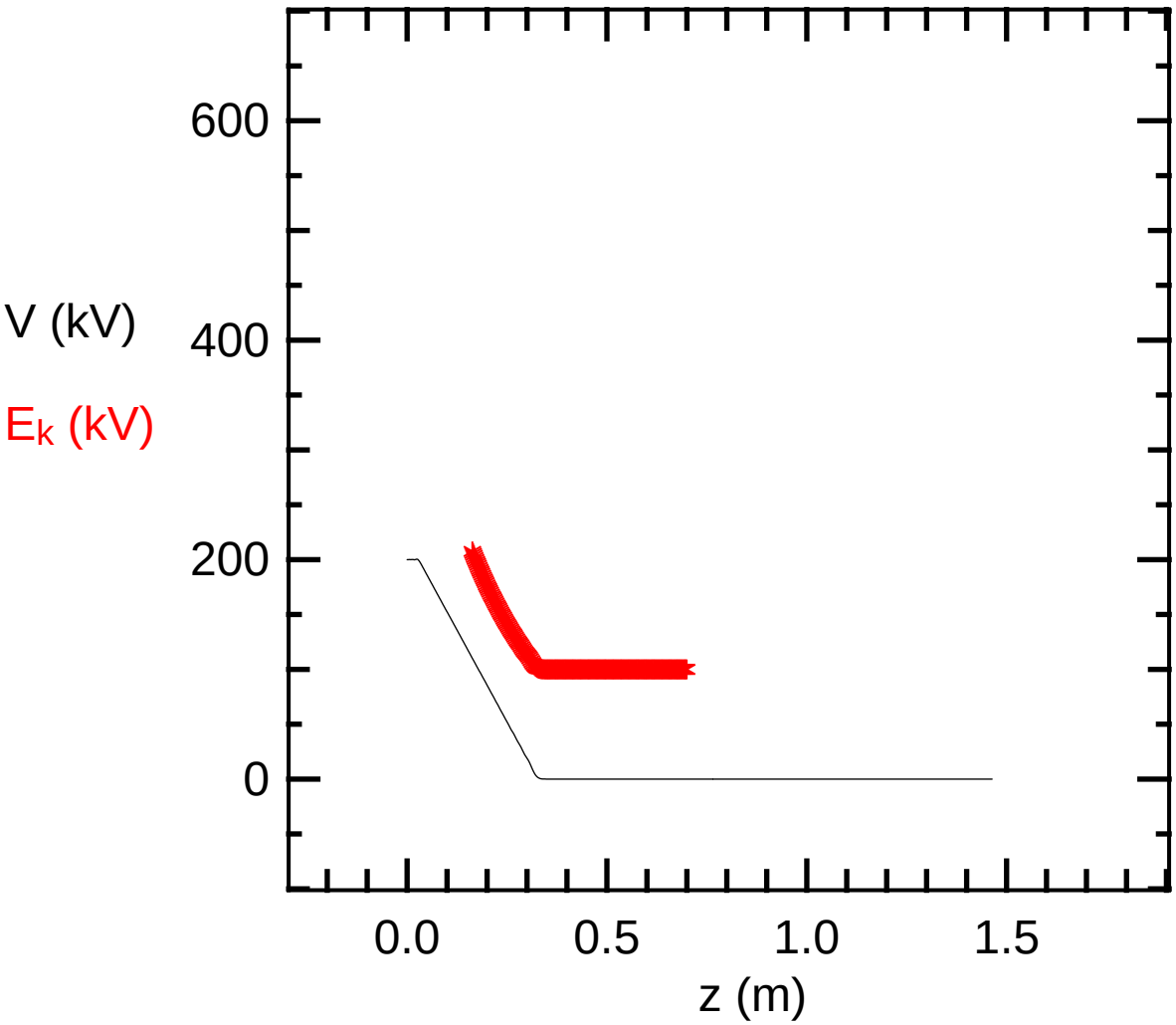
bunching factor = 1.030



it = 7000

time = 70.000 ns

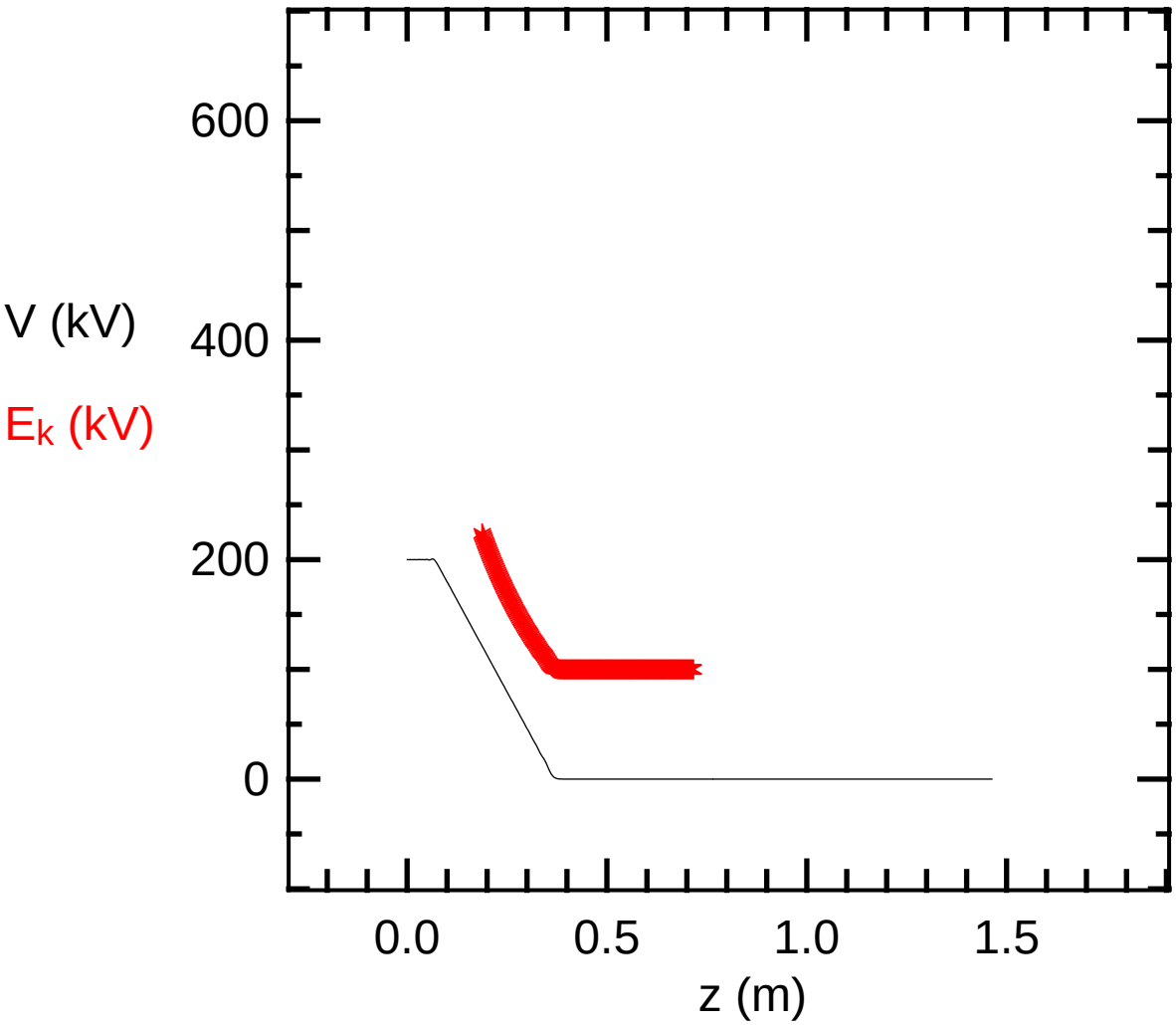
bunching factor = 1.041



it = 8000

time = 80.000 ns

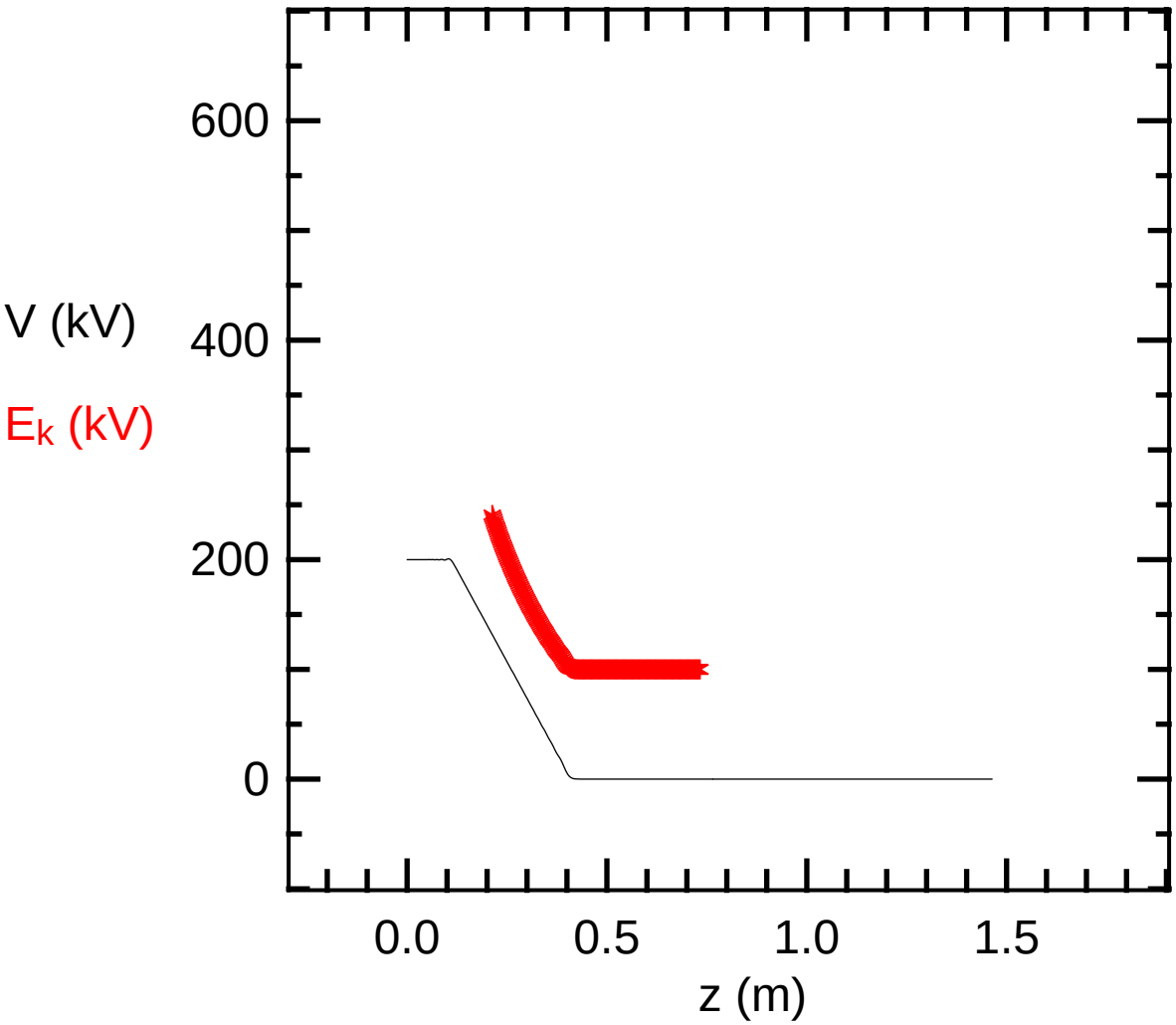
bunching factor = 1.054



it = 9000

time = 90.000 ns

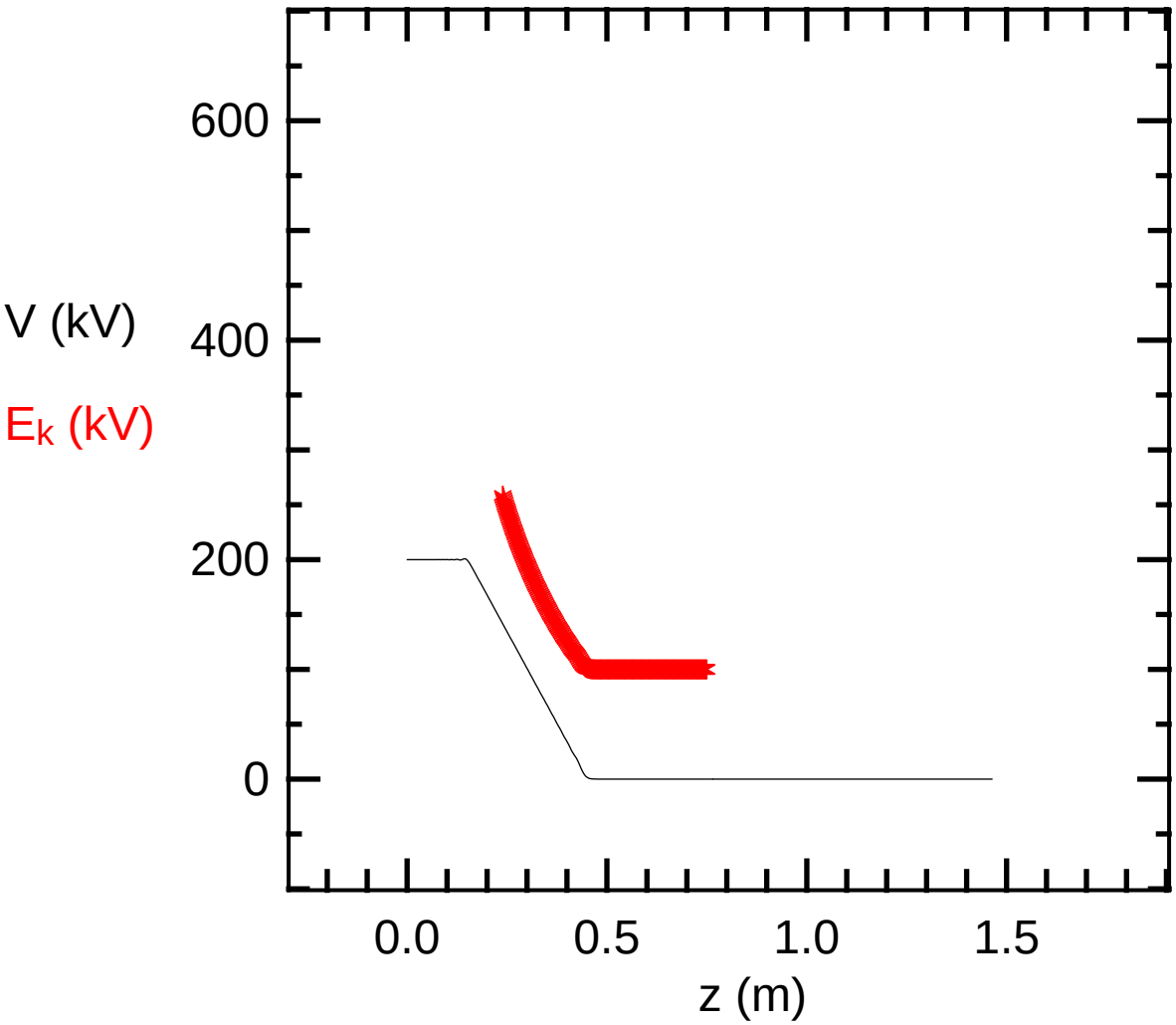
bunching factor = 1.070



it = 10000

time = 100.000 ns

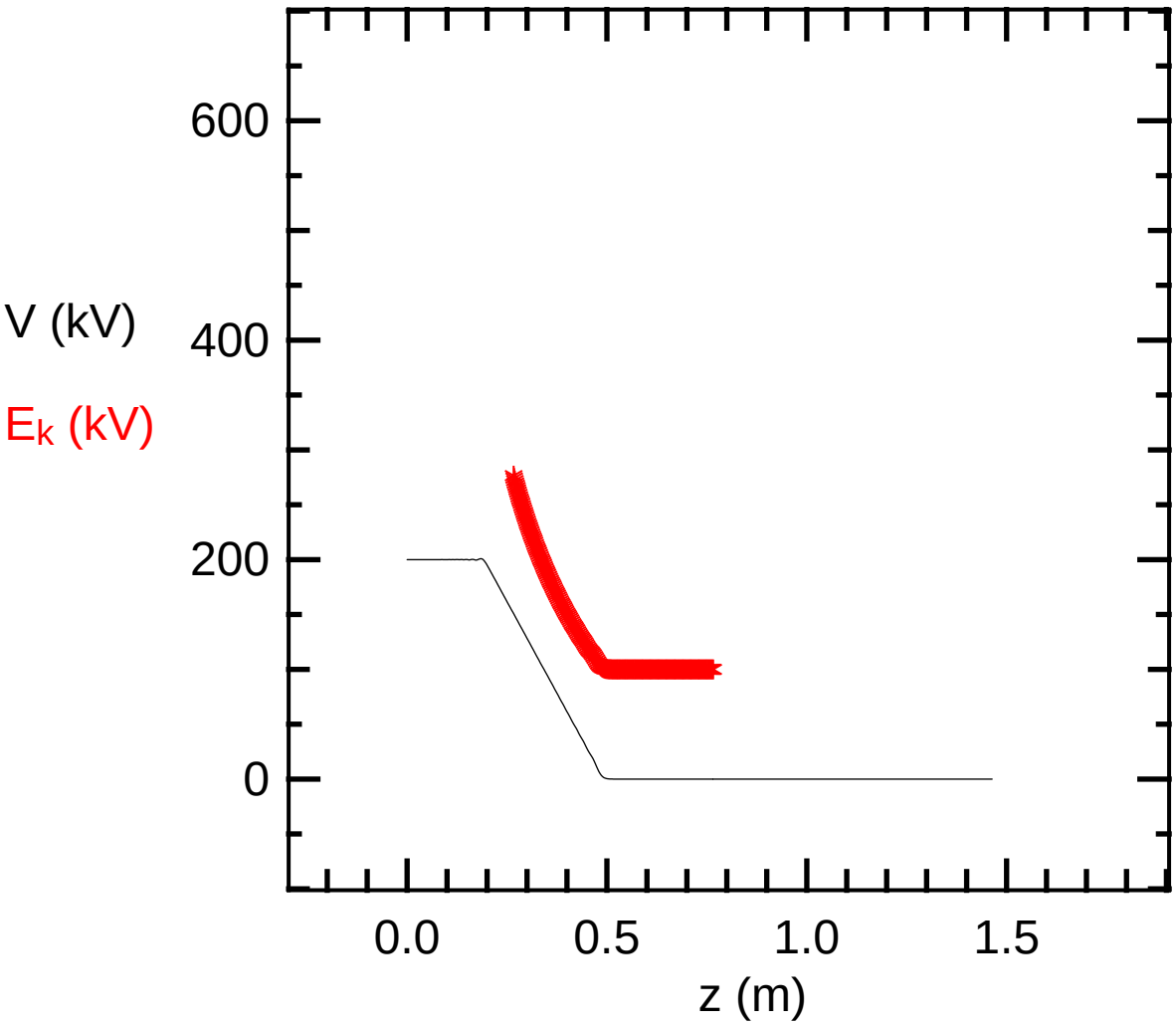
bunching factor = 1.088



it = 11000

time = 110.000 ns

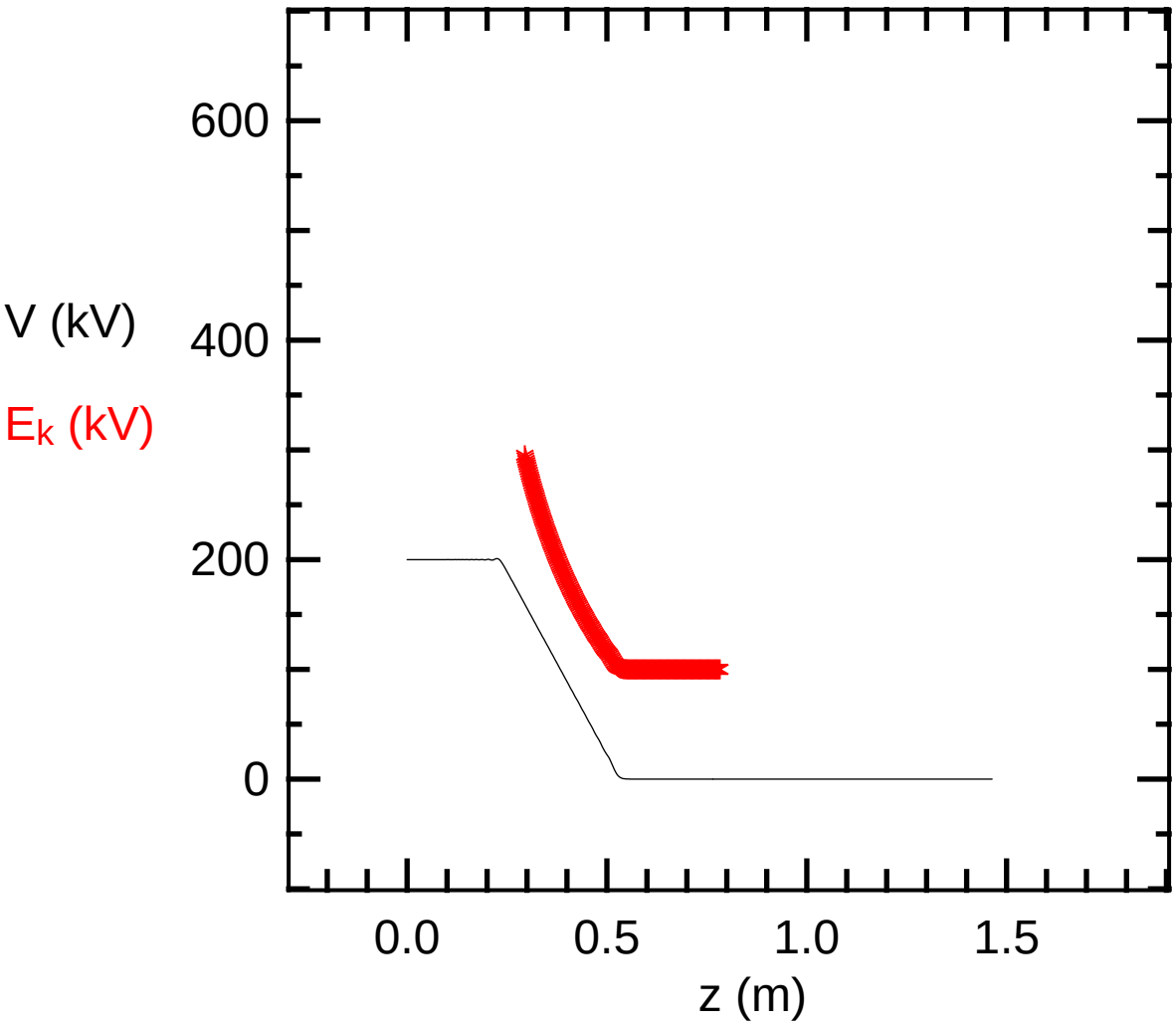
bunching factor = 1.108



it = 12000

time = 120.000 ns

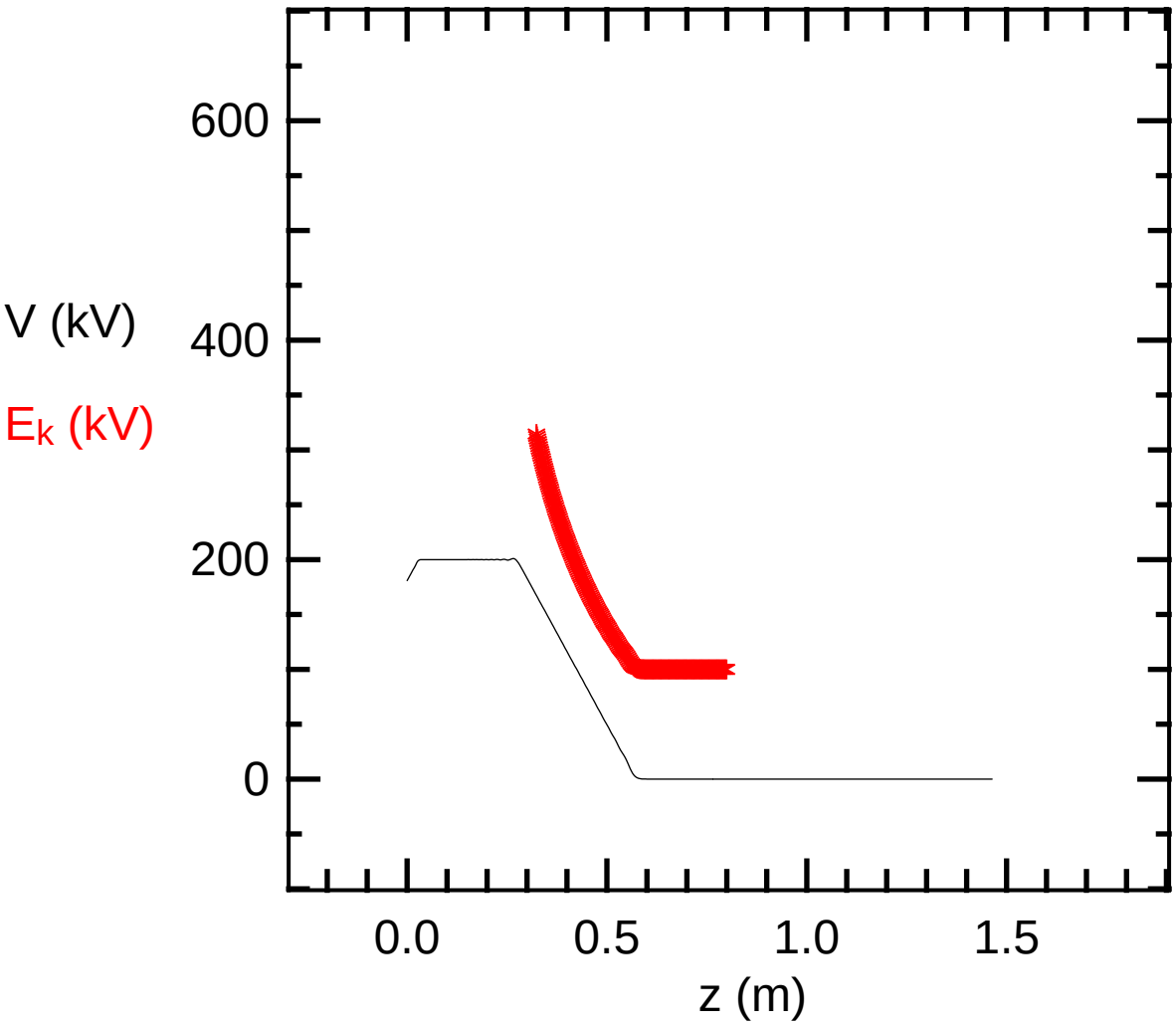
bunching factor = 1.132



it = 13000

time = 130.000 ns

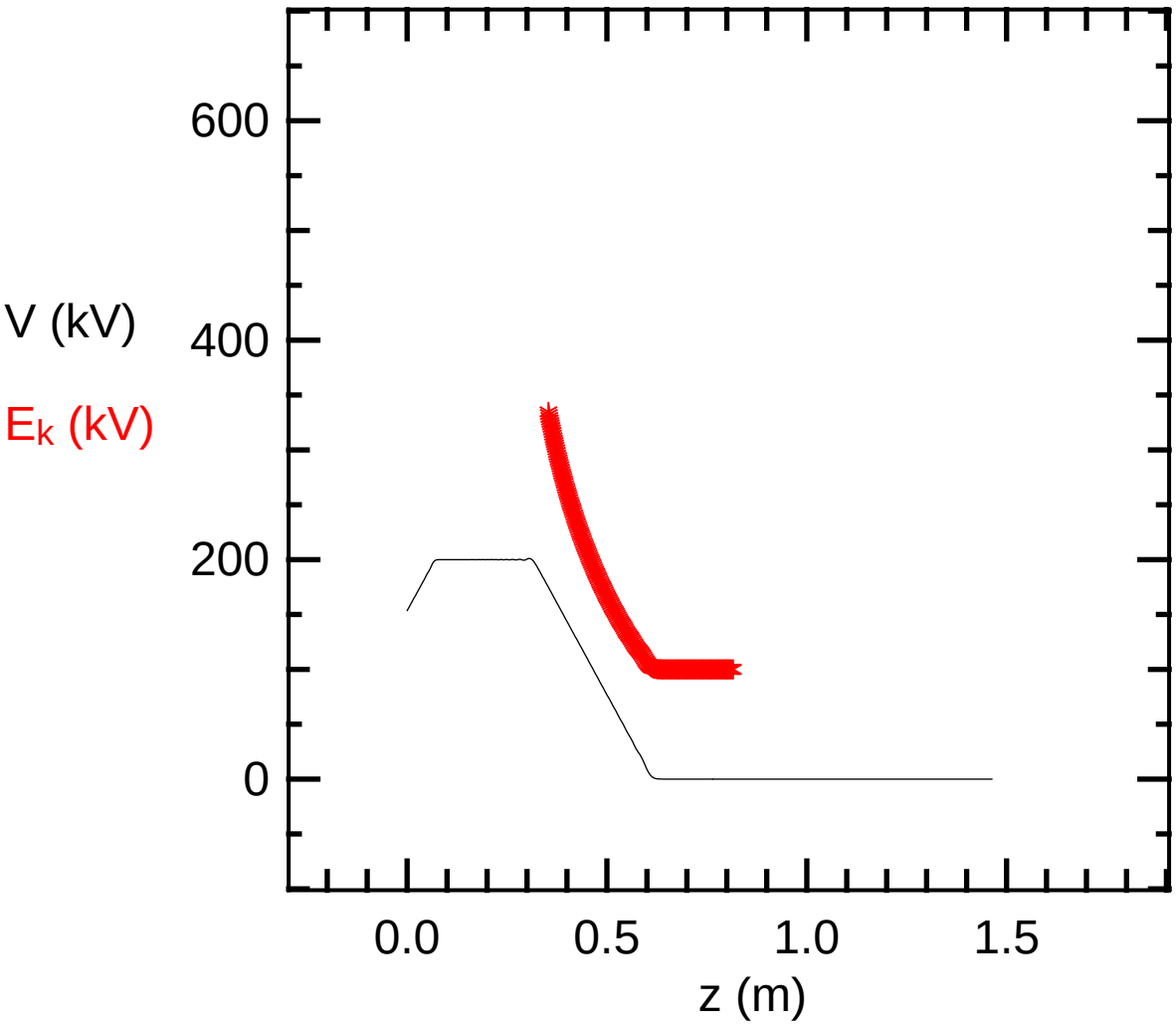
bunching factor = 1.158



it = 14000

time = 140.000 ns

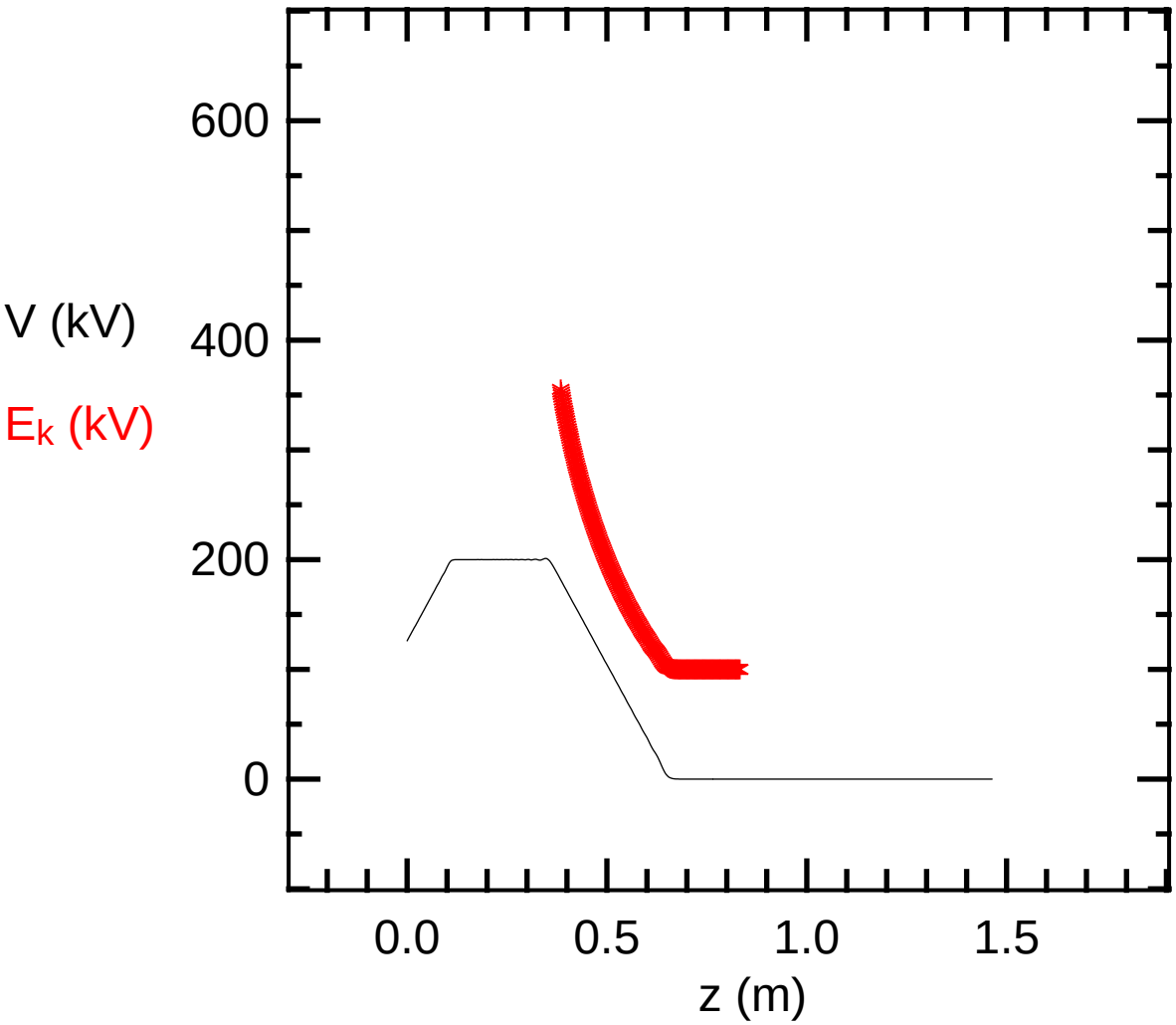
bunching factor = 1.188



it = 15000

time = 150.000 ns

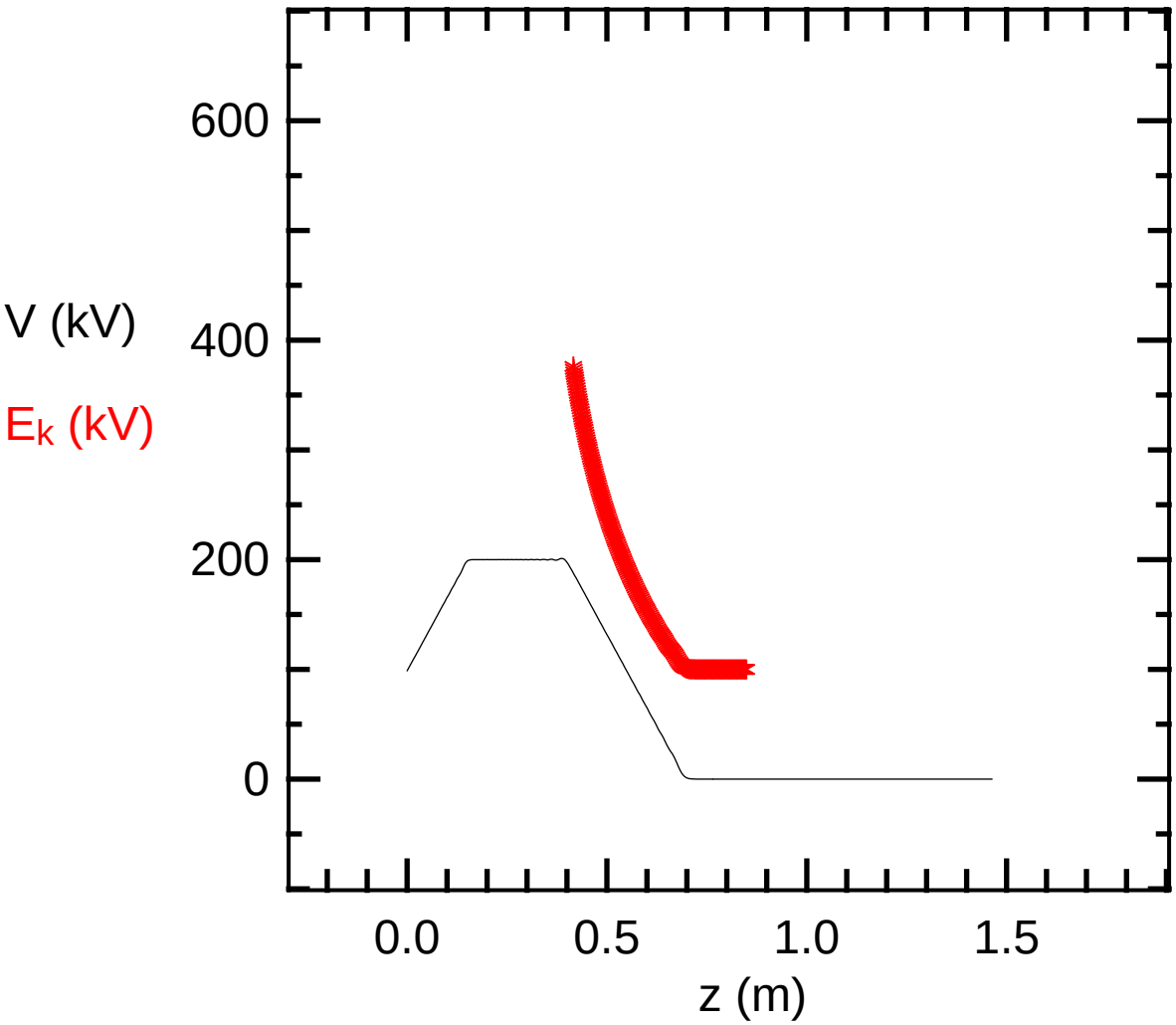
bunching factor = 1.223



it = 16000

time = 160.000 ns

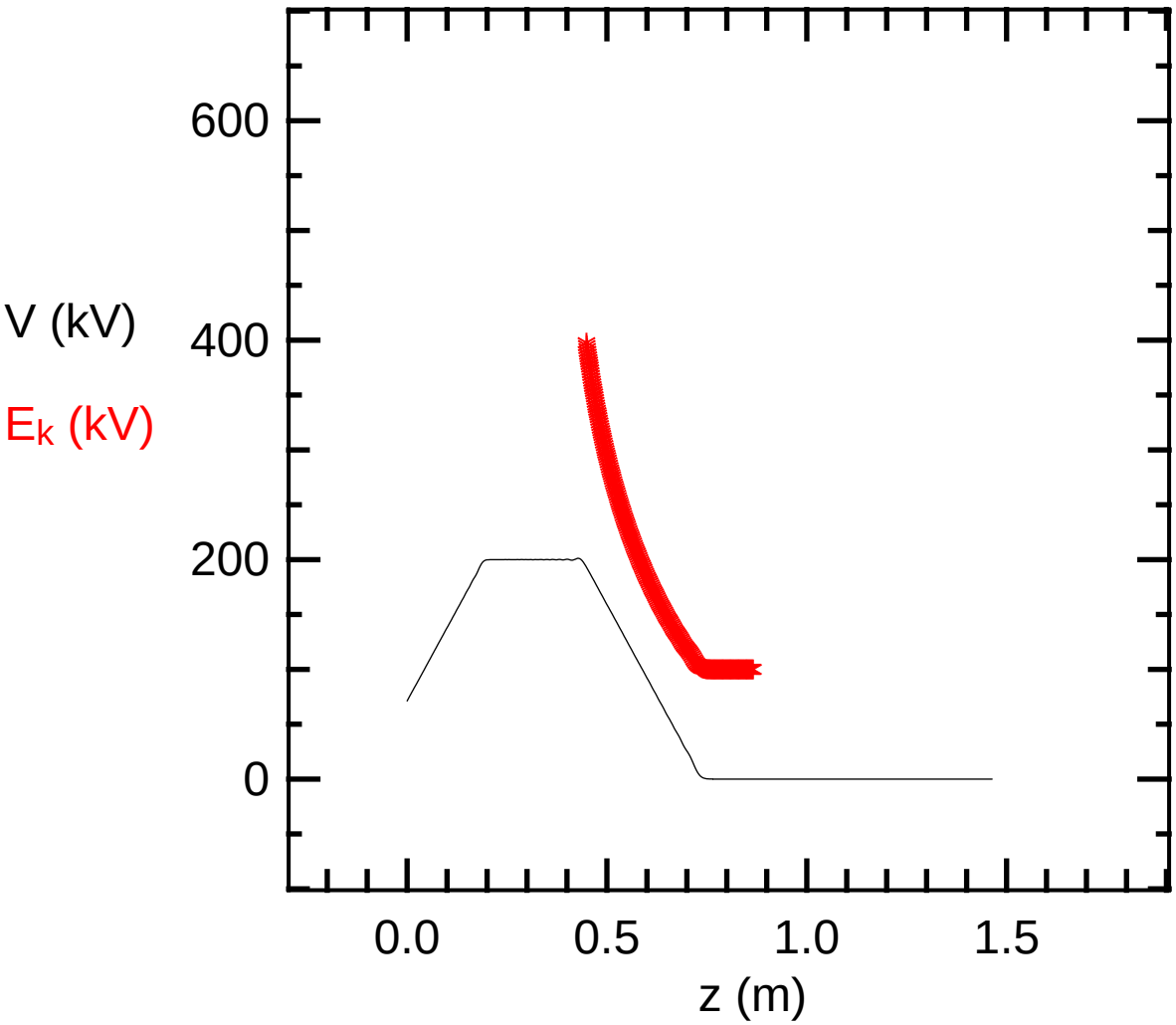
bunching factor = 1.261



it = 17000

time = 170.000 ns

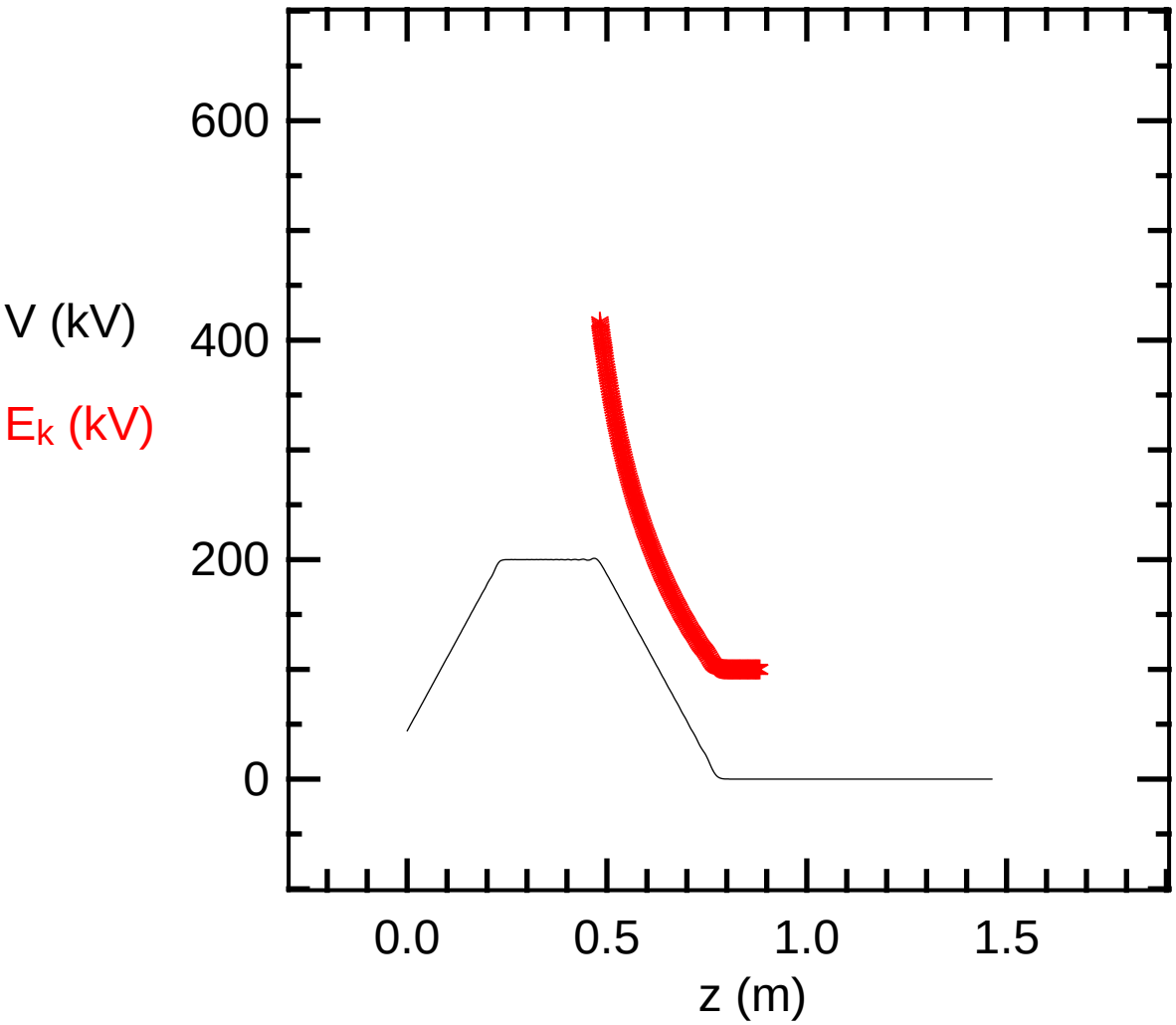
bunching factor = 1.306



it = 18000

time = 180.000 ns

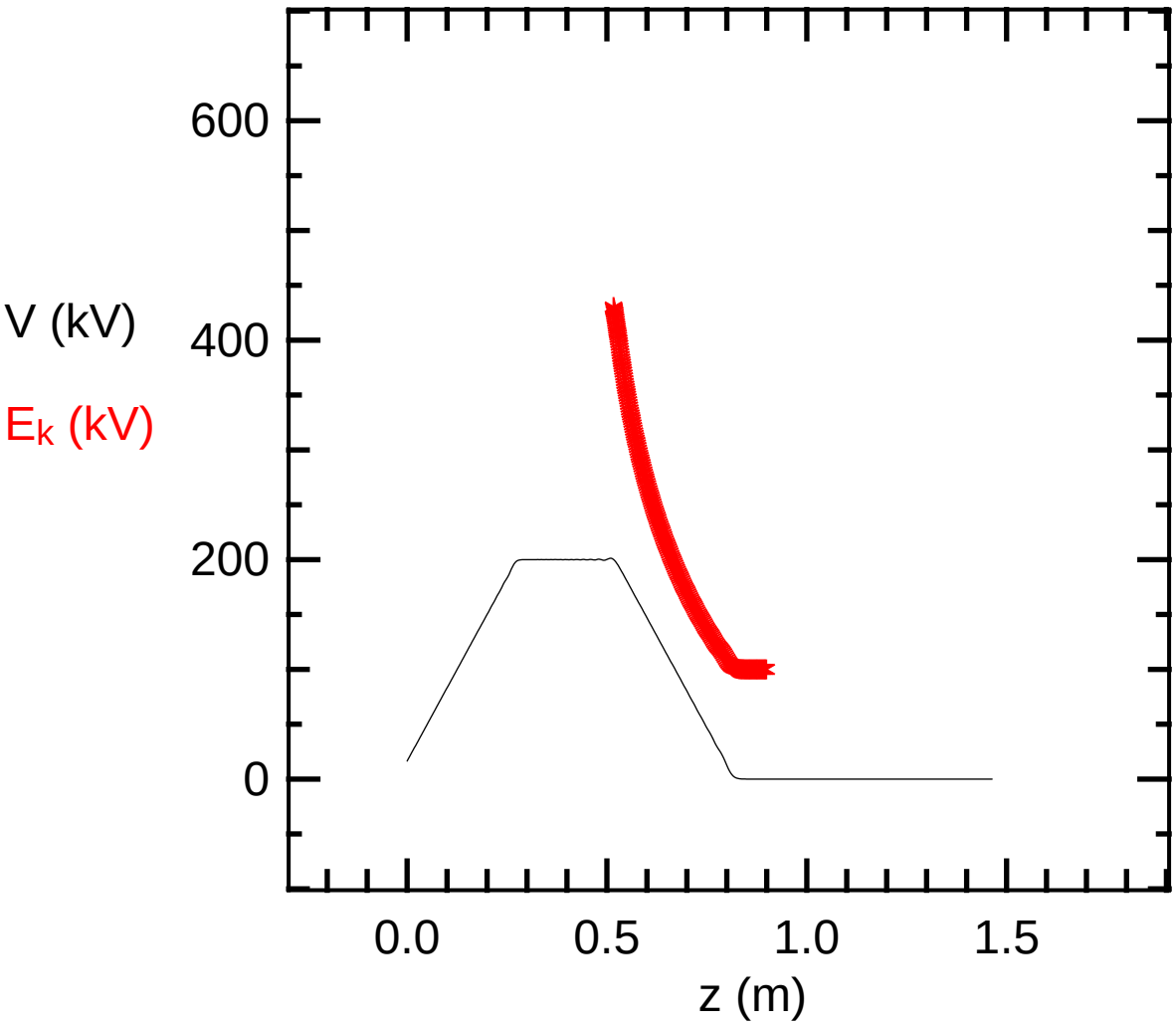
bunching factor = 1.356



it = 19000

time = 190.000 ns

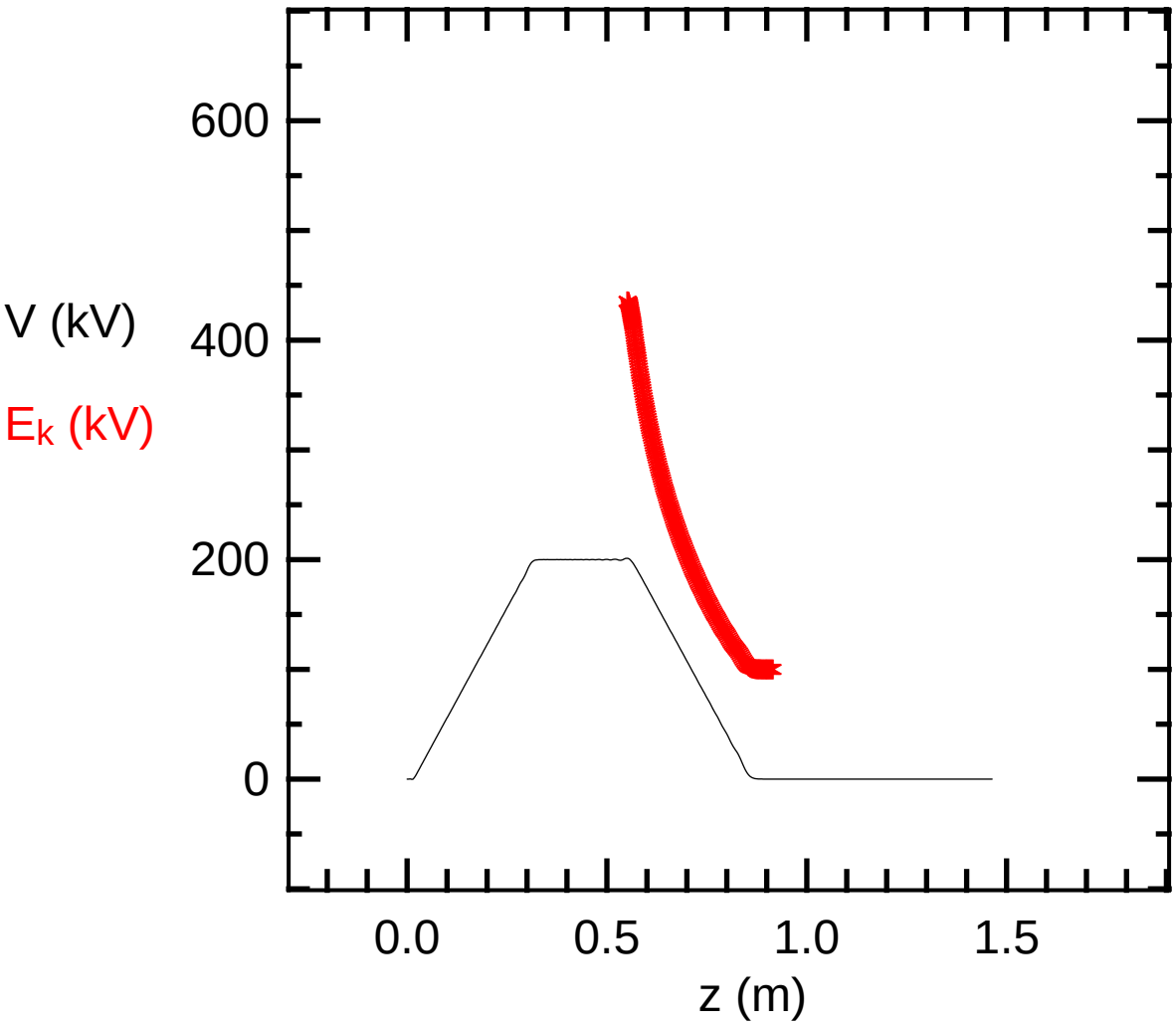
bunching factor = 1.413



it = 20000

time = 200.000 ns

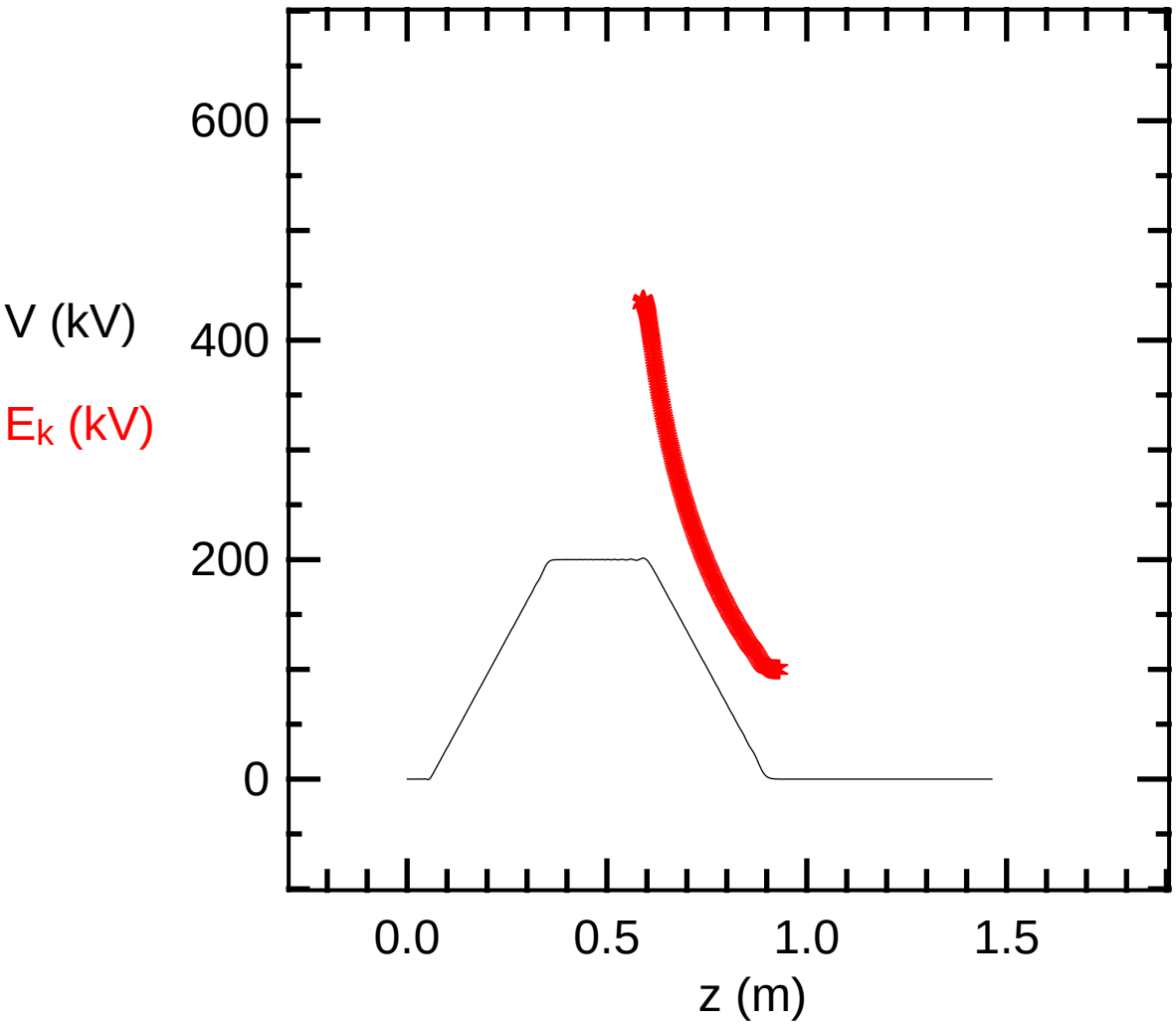
bunching factor = 1.478



it = 21000

time = 210.000 ns

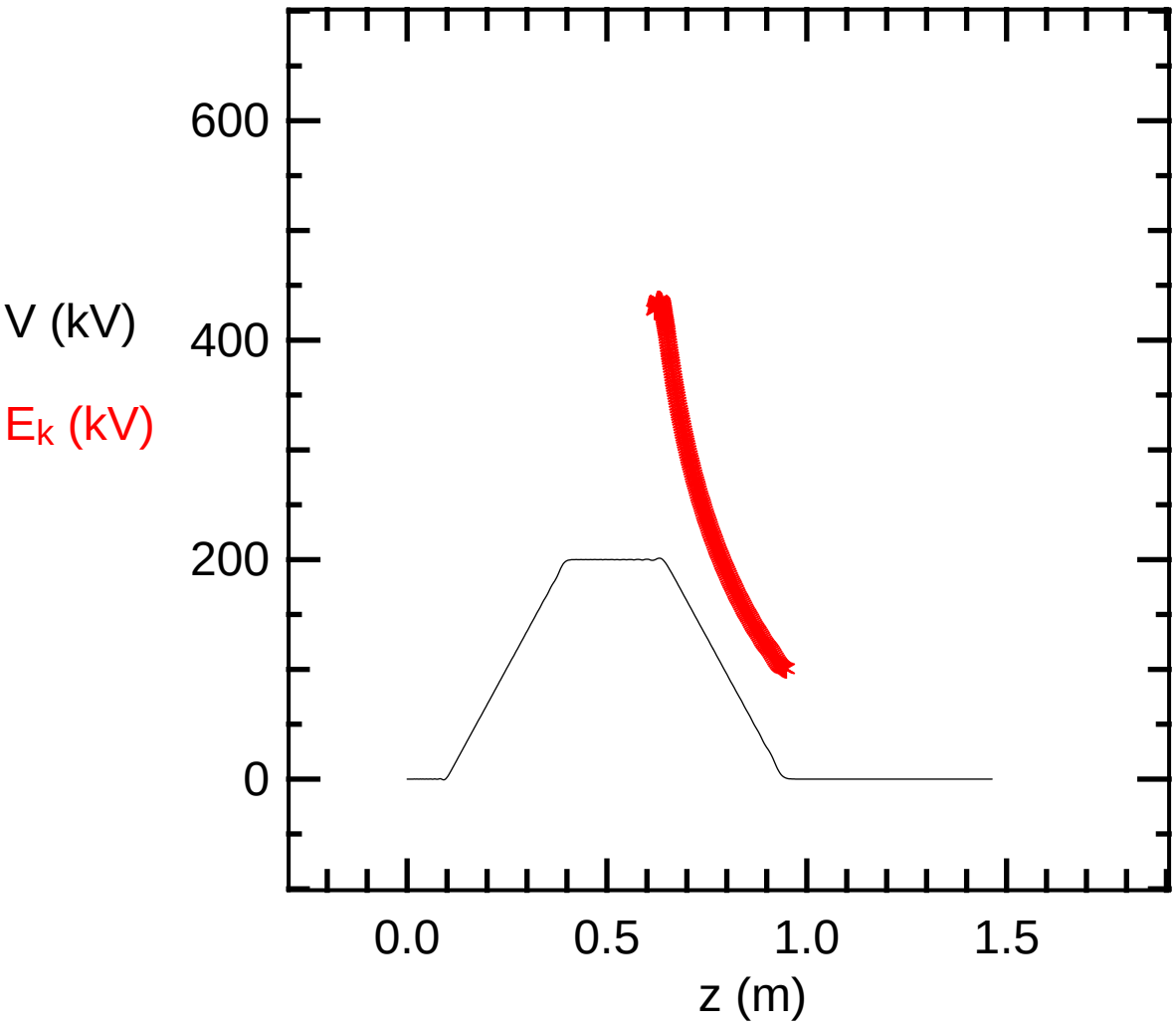
bunching factor = 1.551



it = 22000

time = 220.000 ns

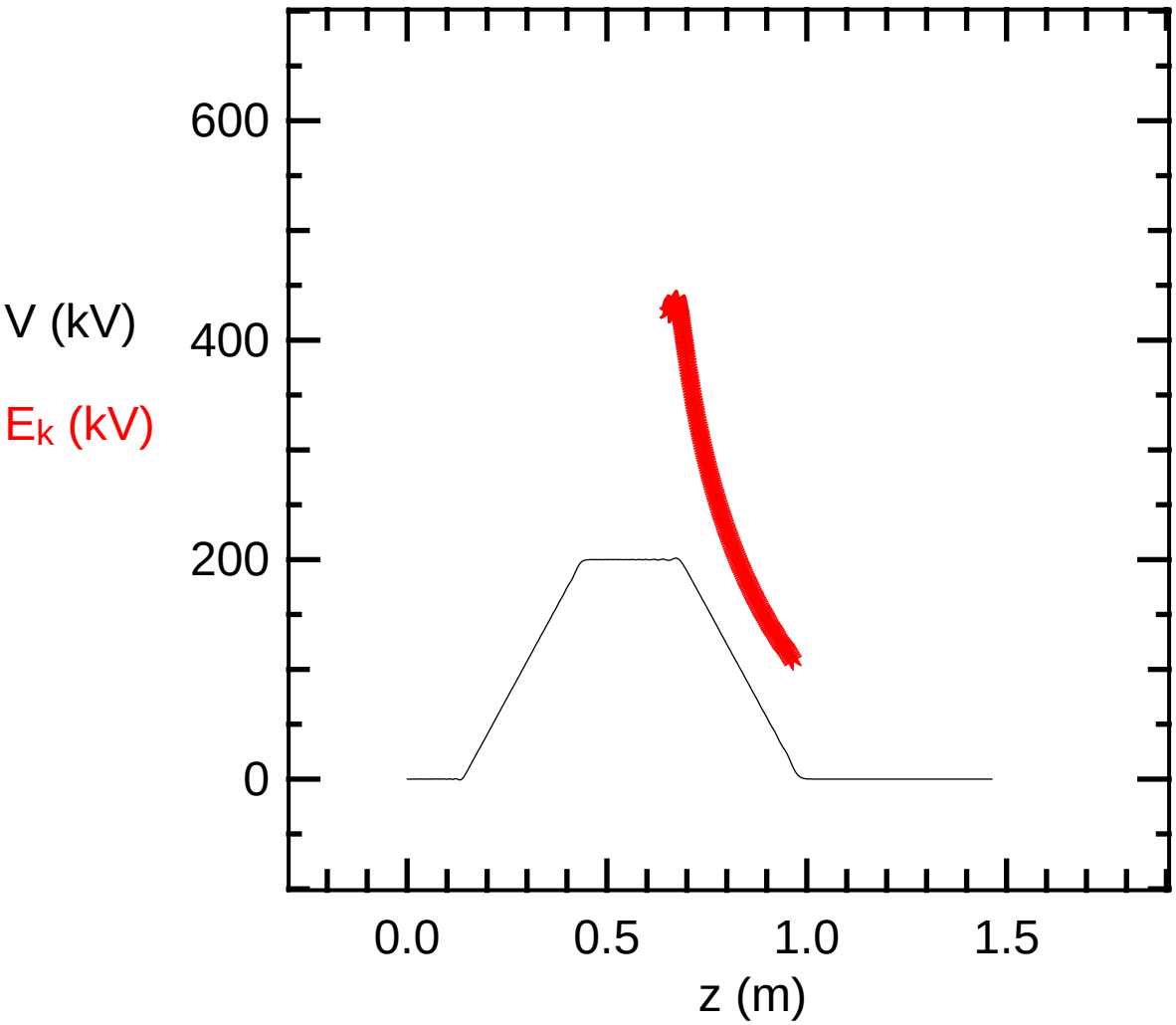
bunching factor = 1.632



it = 23000

time = 230.000 ns

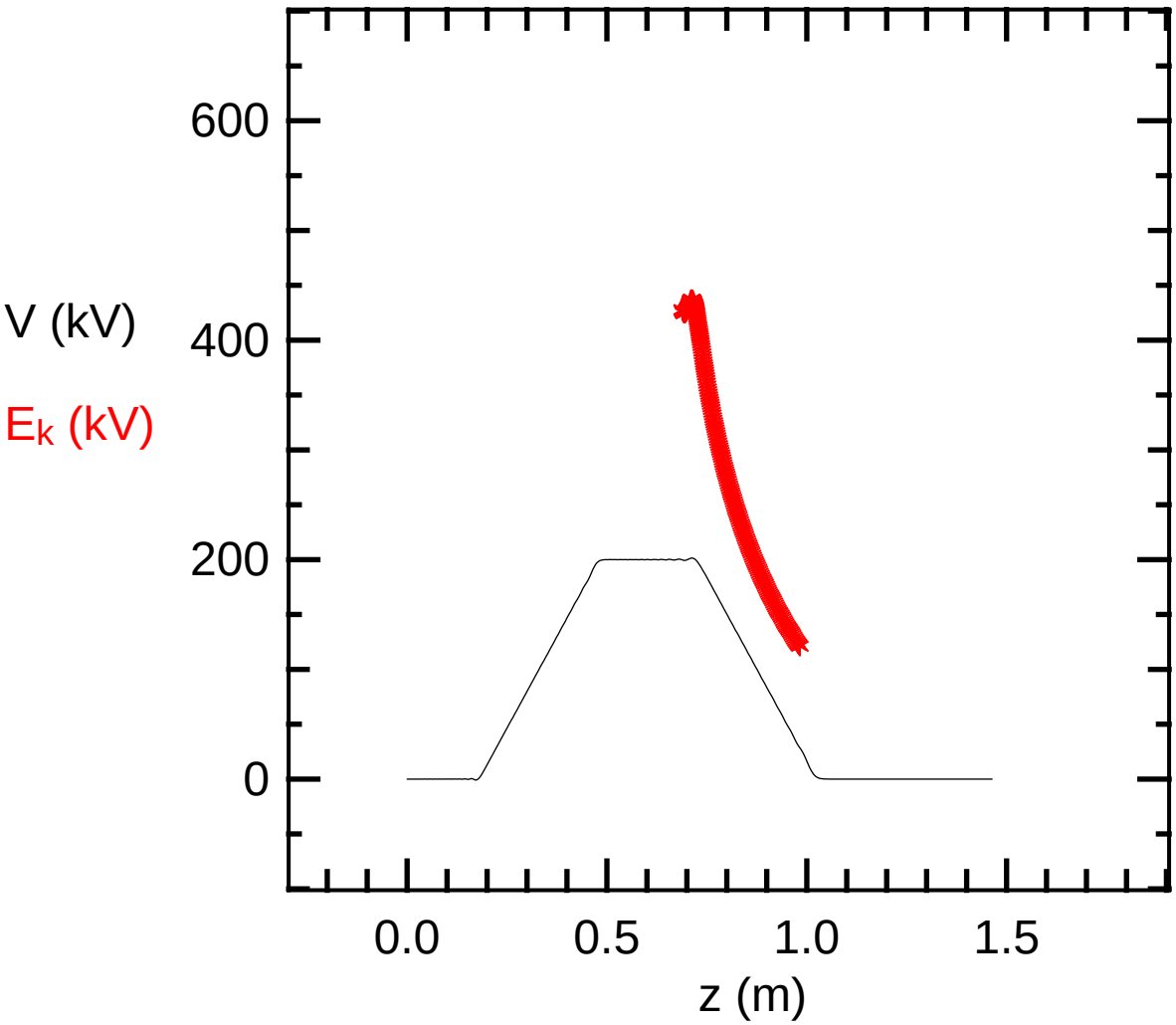
bunching factor = 1.720



it = 24000

time = 240.000 ns

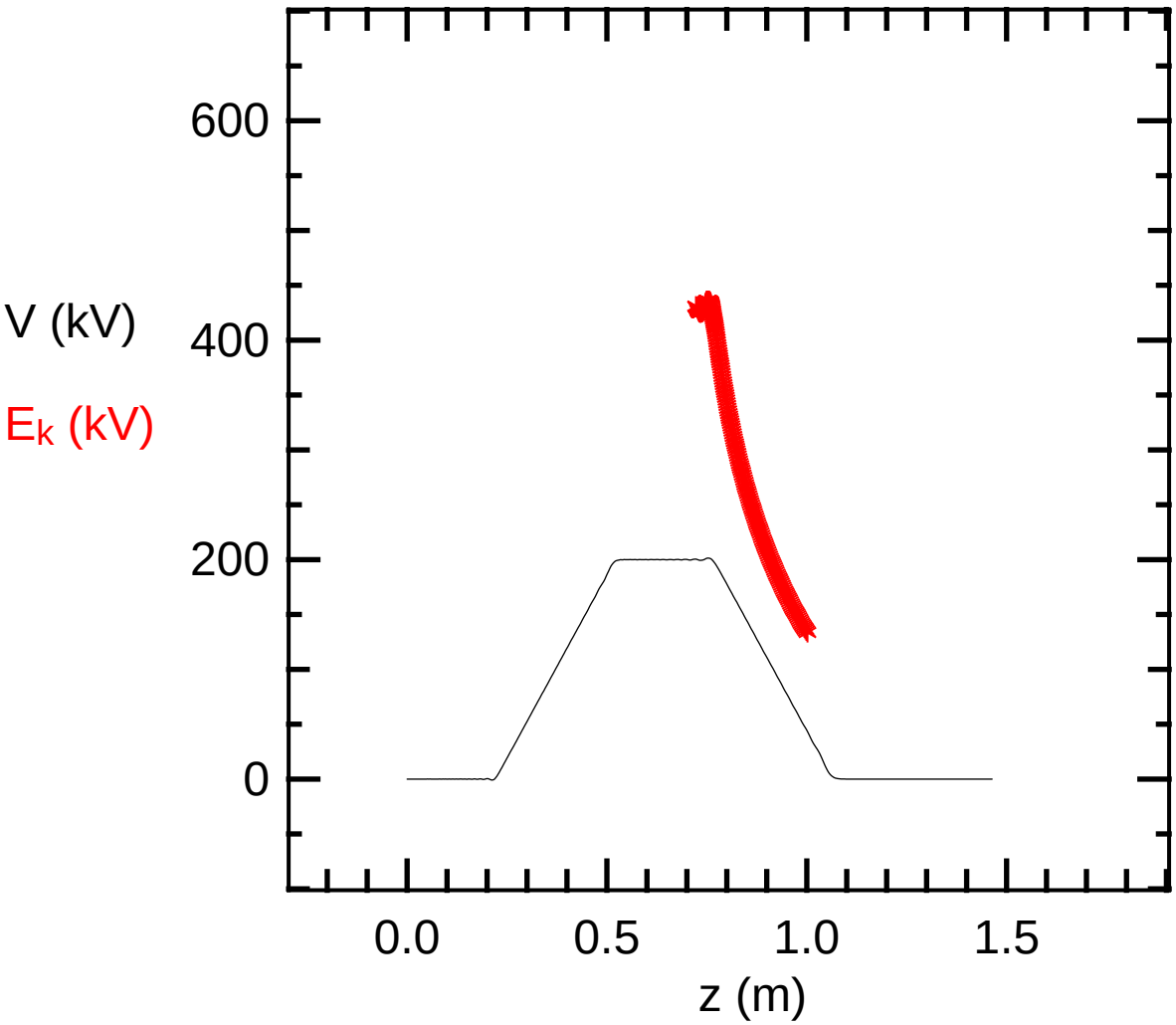
bunching factor = 1.817



it = 25000

time = 250.000 ns

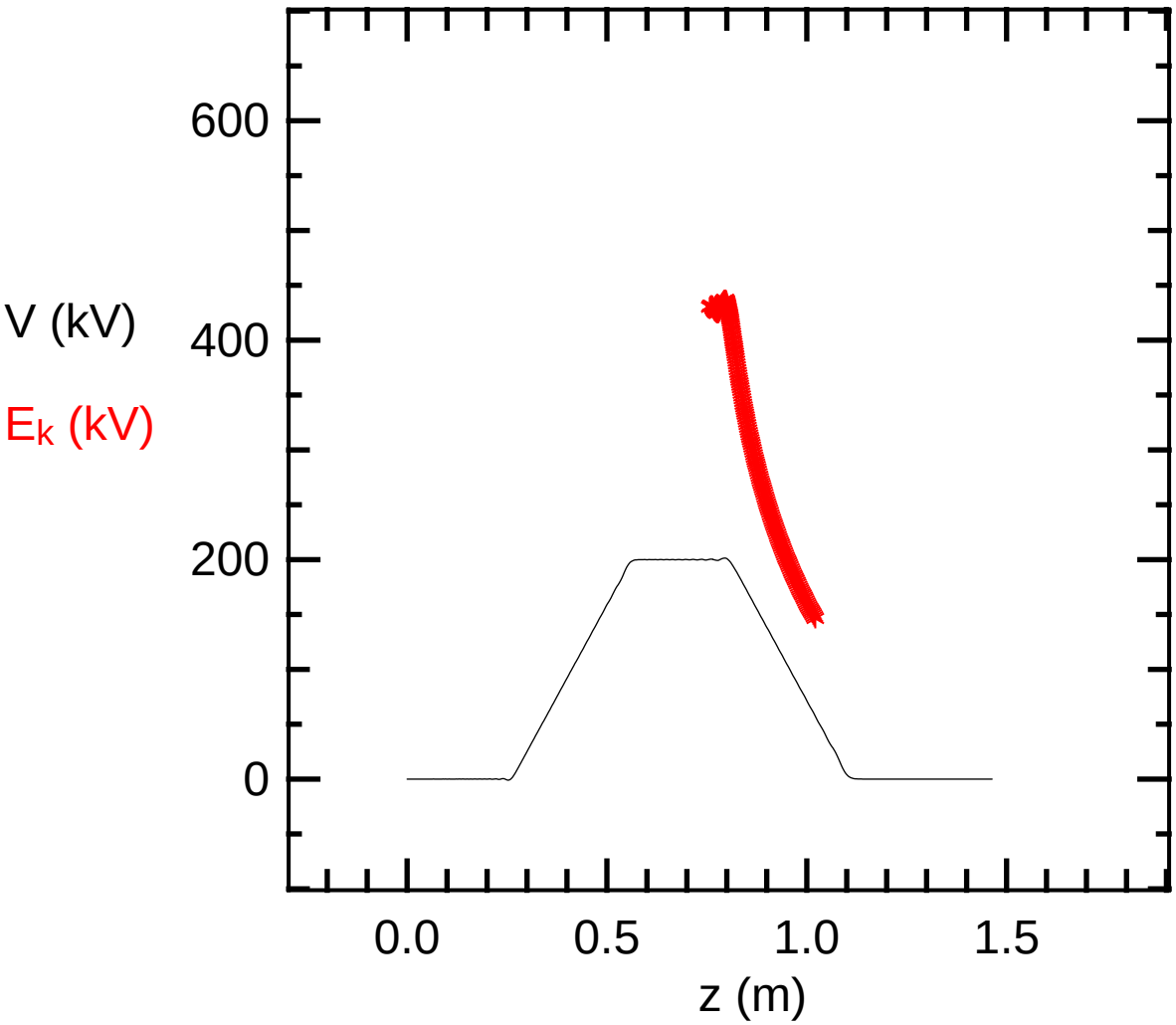
bunching factor = 1.918



it = 26000

time = 260.000 ns

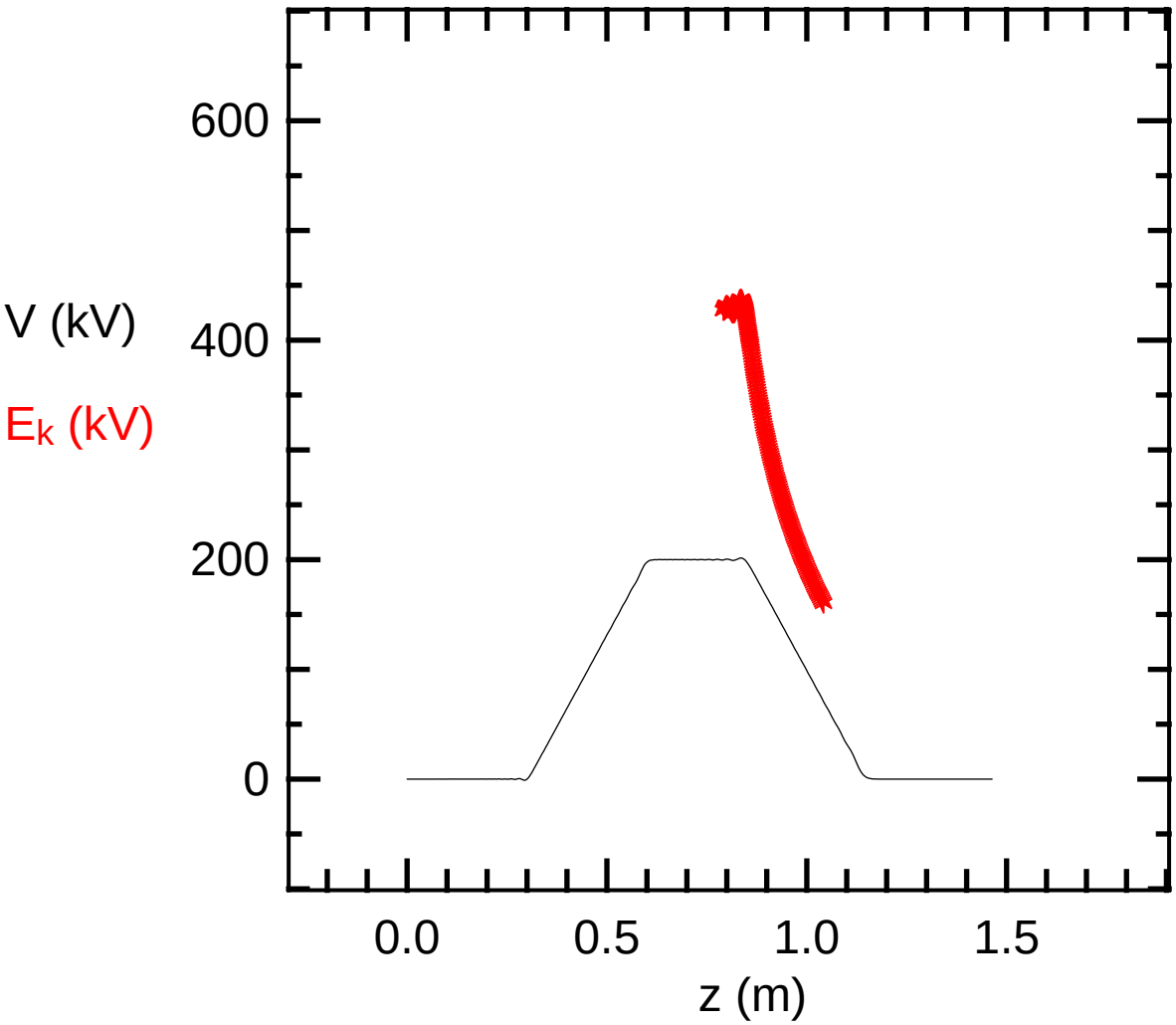
bunching factor = 2.026



it = 27000

time = 270.000 ns

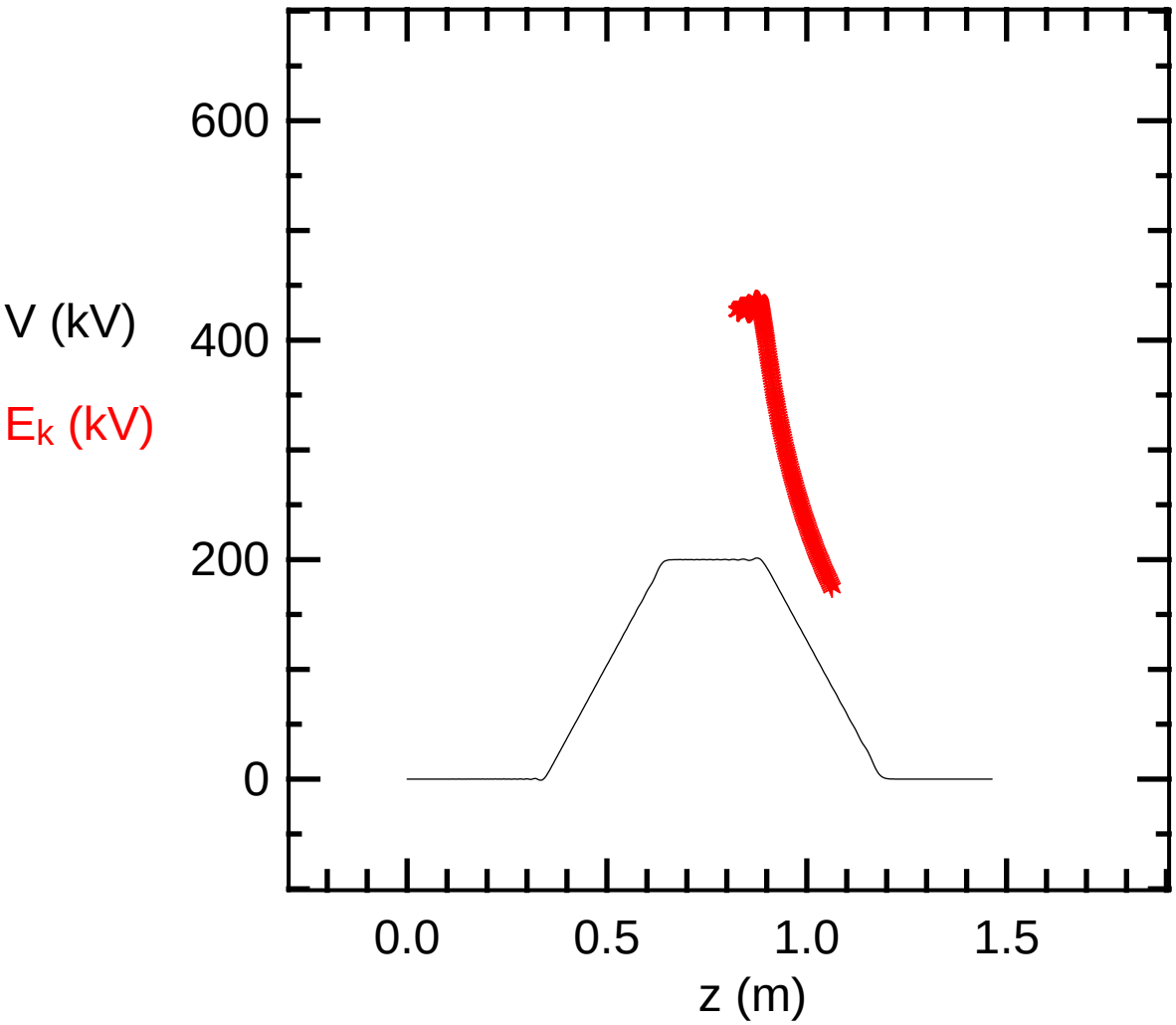
bunching factor = 2.140



it = 28000

time = 280.000 ns

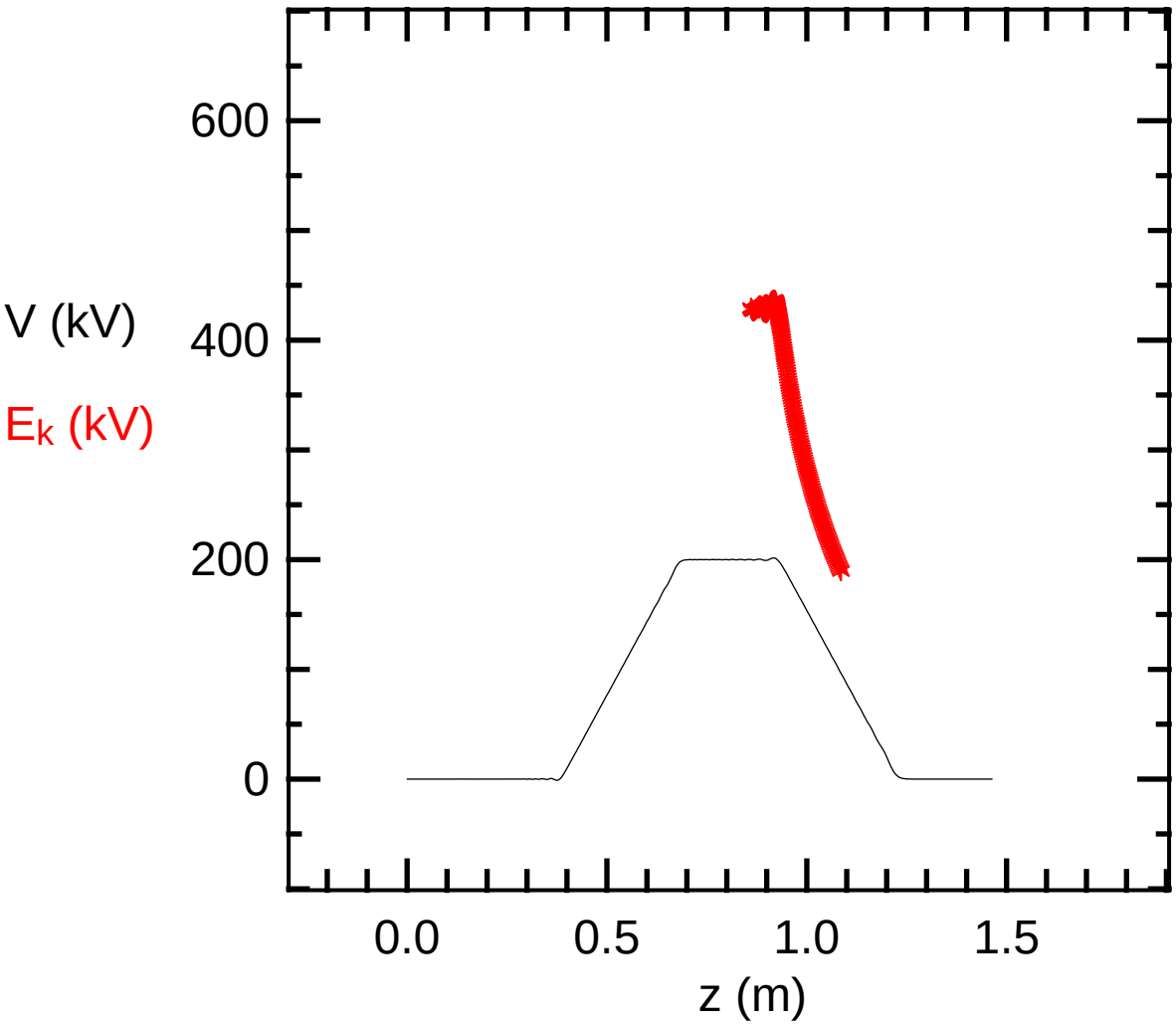
bunching factor = 2.259



it = 29000

time = 290.000 ns

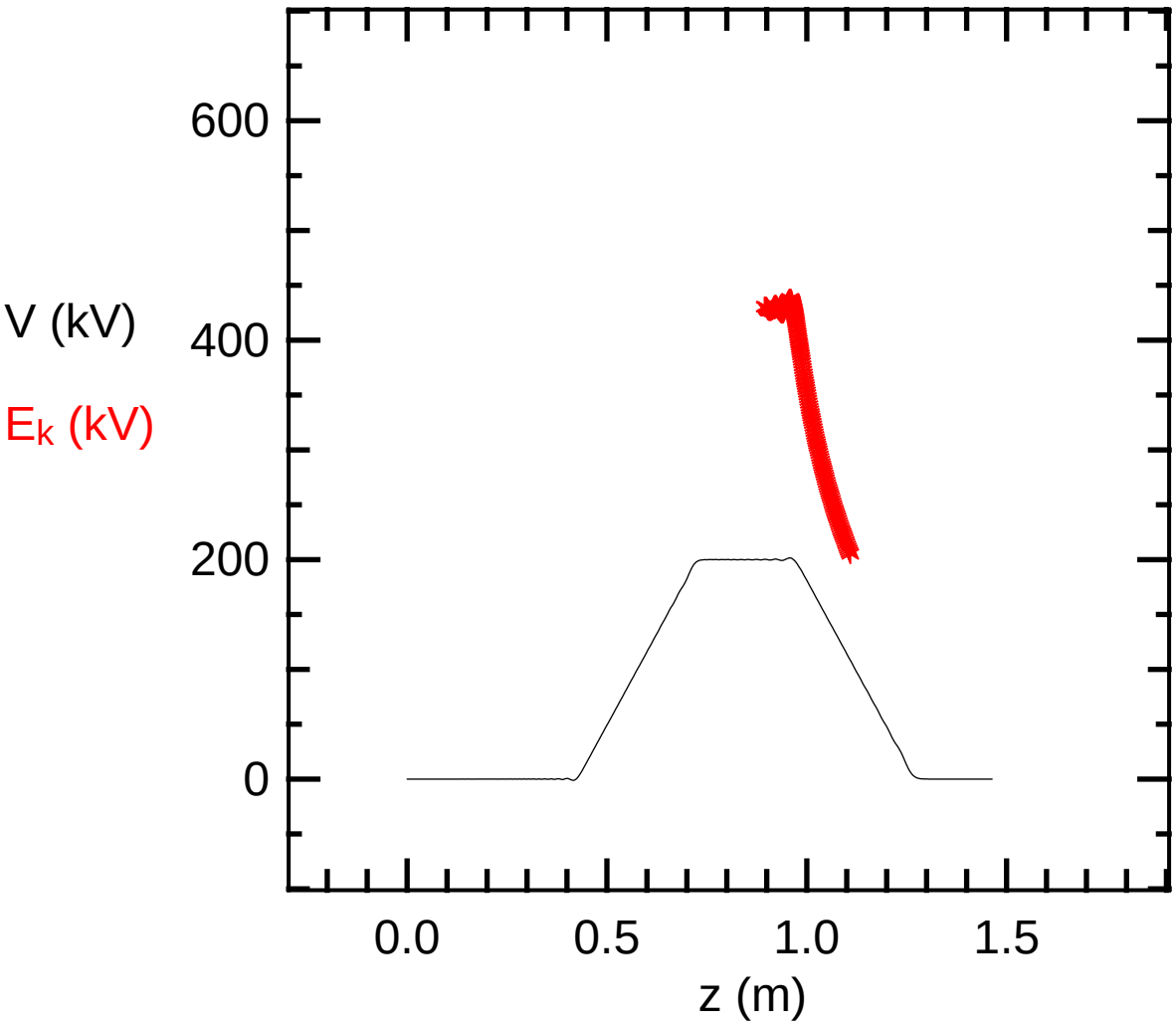
bunching factor = 2.380



it = 30000

time = 300.000 ns

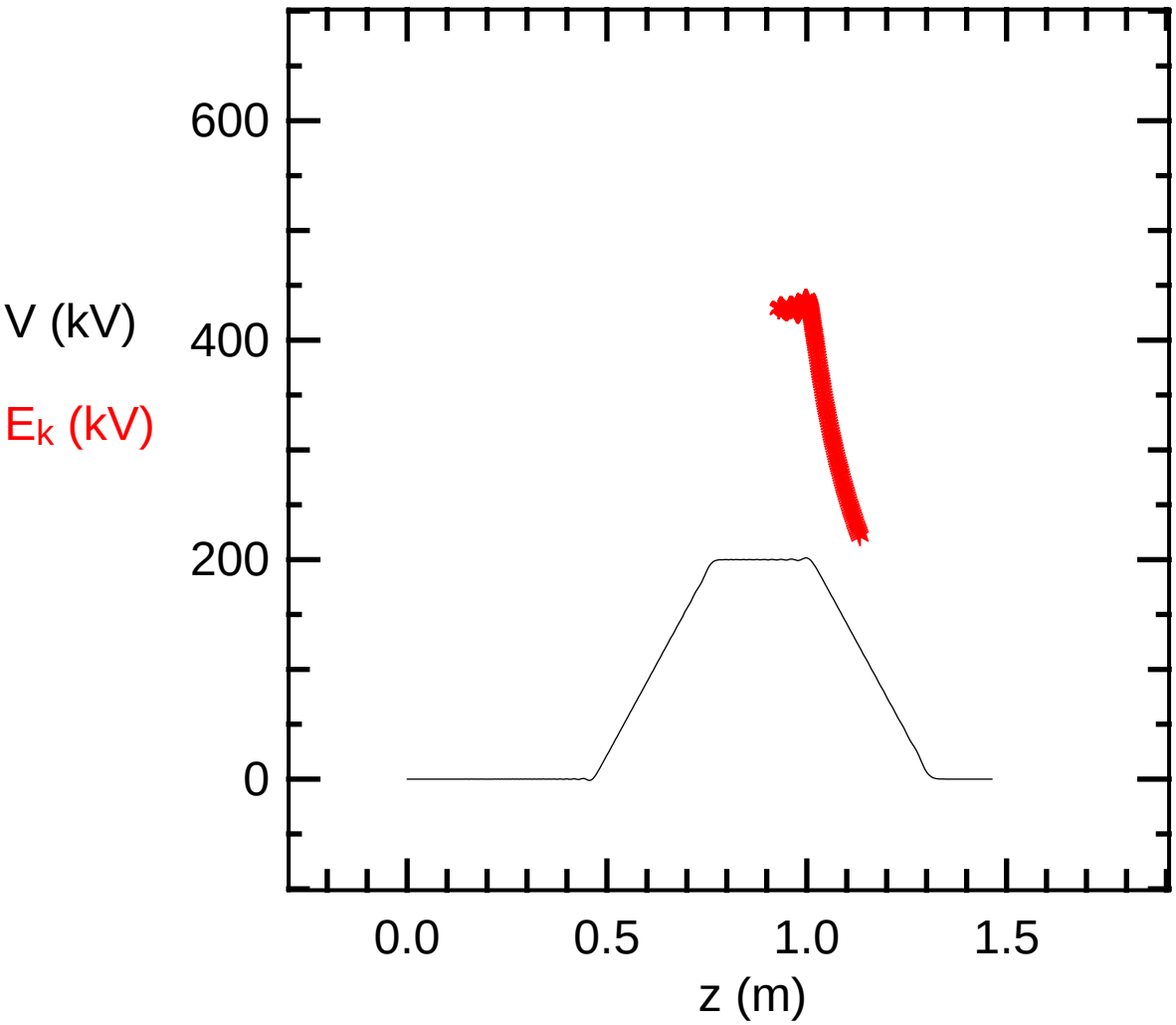
bunching factor = 2.507



it = 31000

time = 310.000 ns

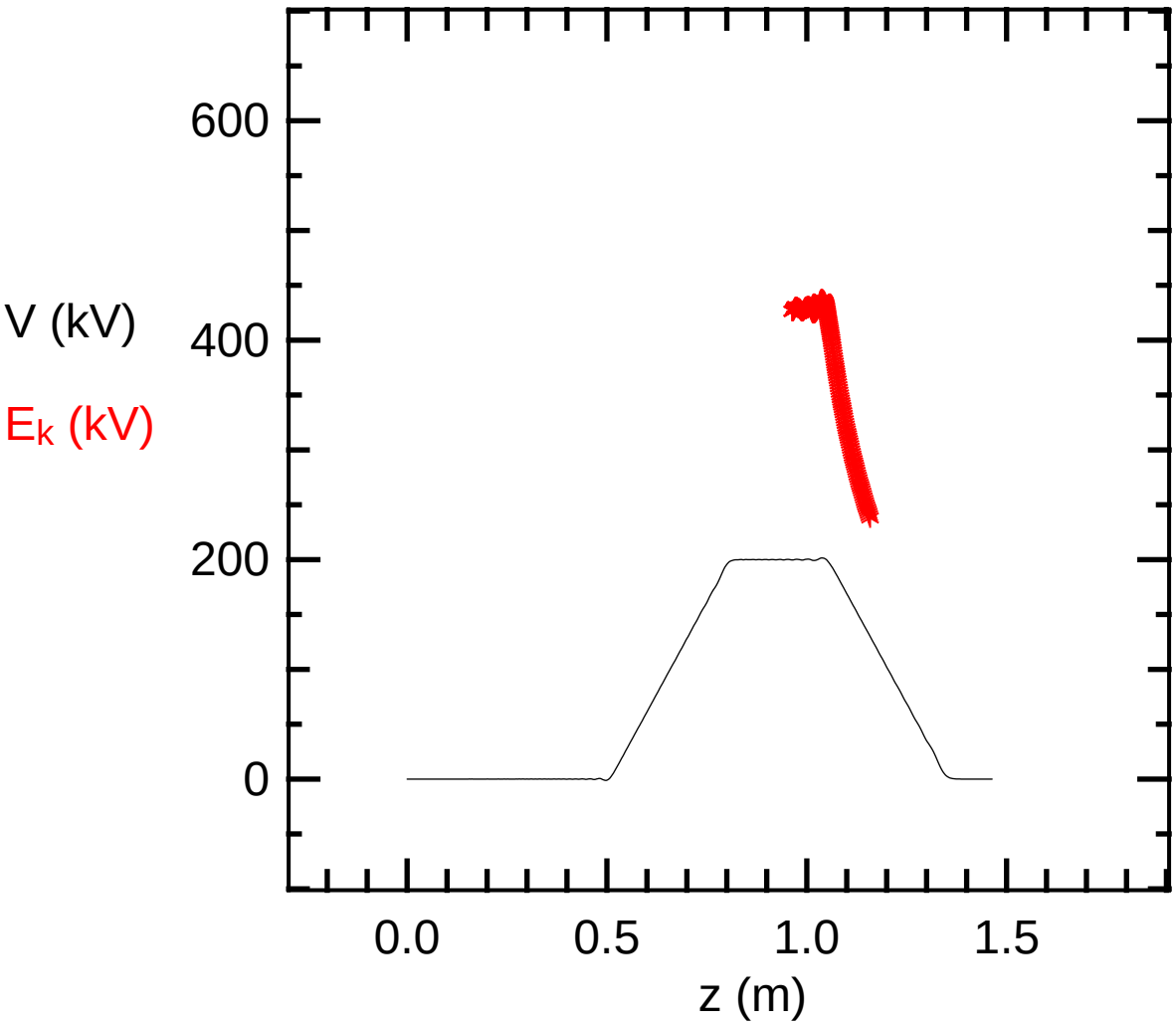
bunching factor = 2.637



it = 32000

time = 320.000 ns

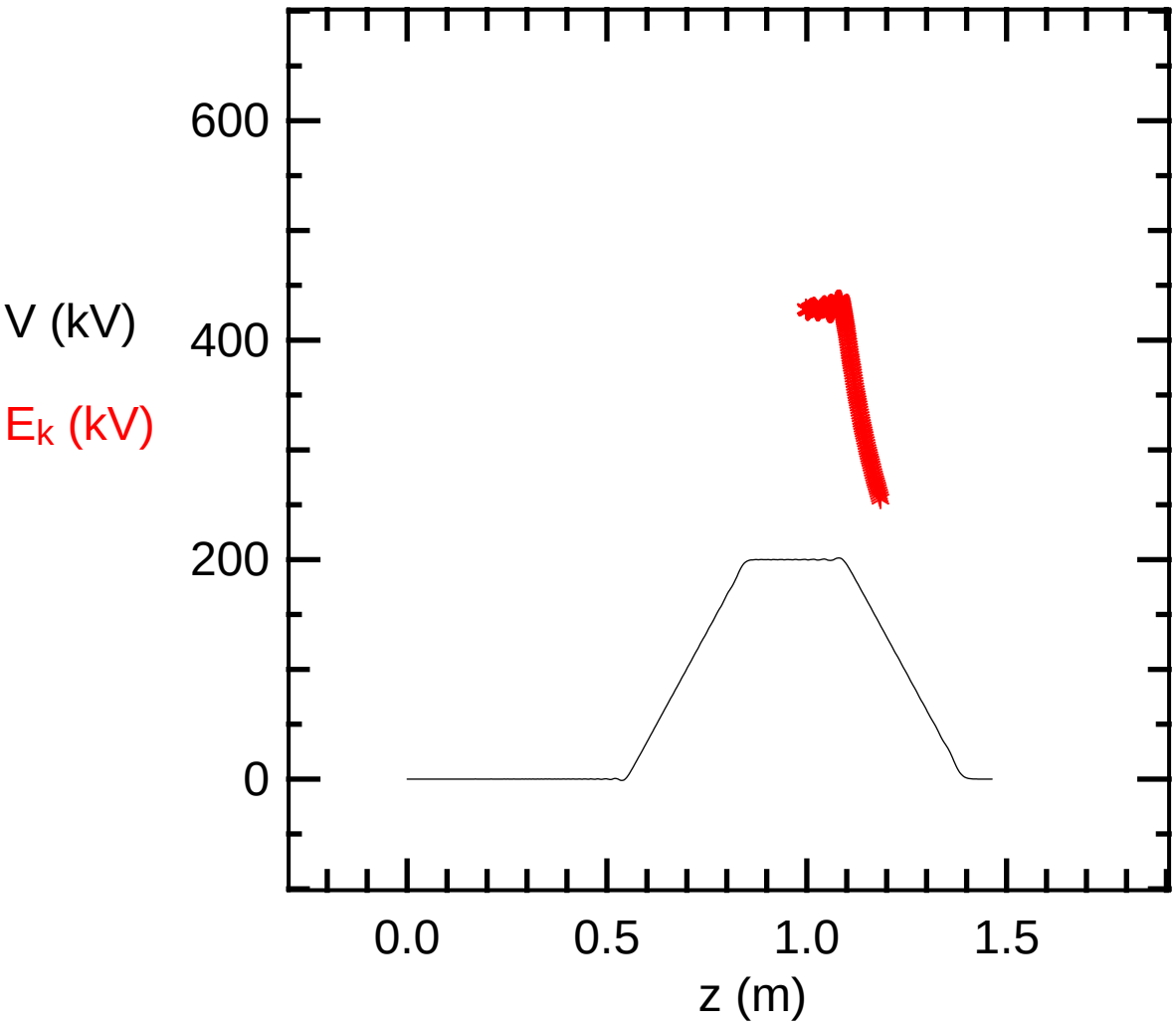
bunching factor = 2.768



it = 33000

time = 330.000 ns

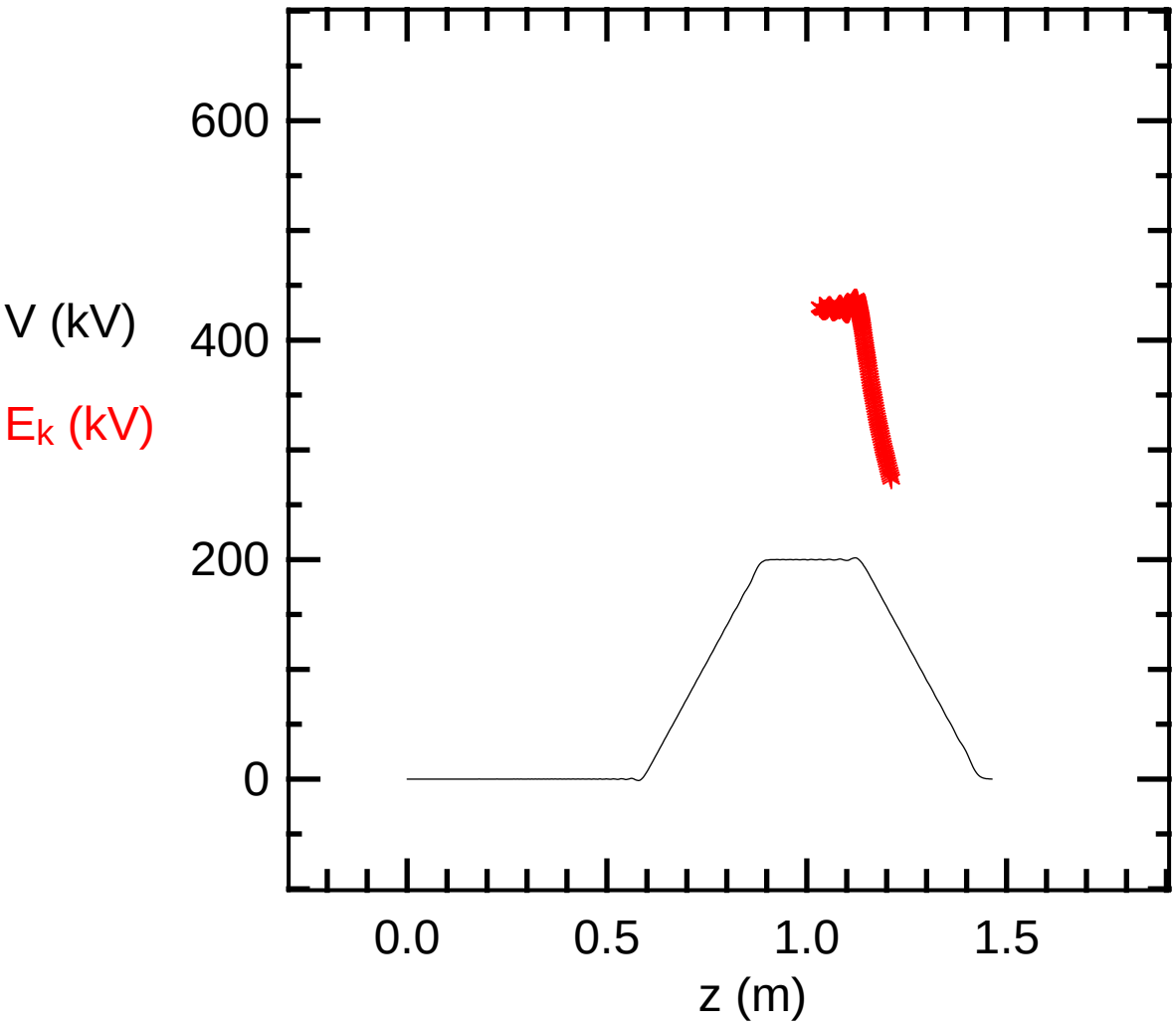
bunching factor = 2.899



it = 34000

time = 340.000 ns

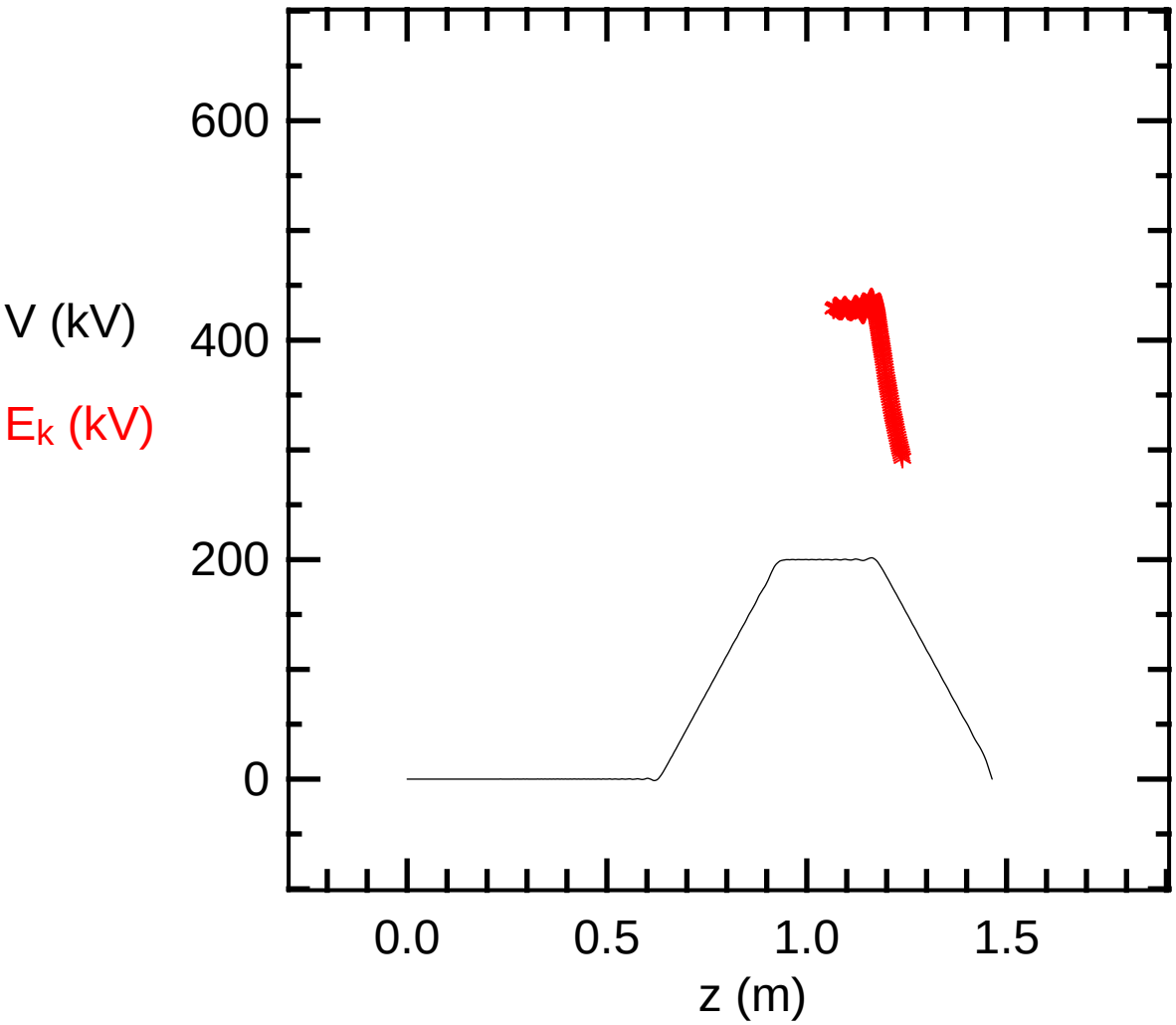
bunching factor = 3.027



it = 35000

time = 350.000 ns

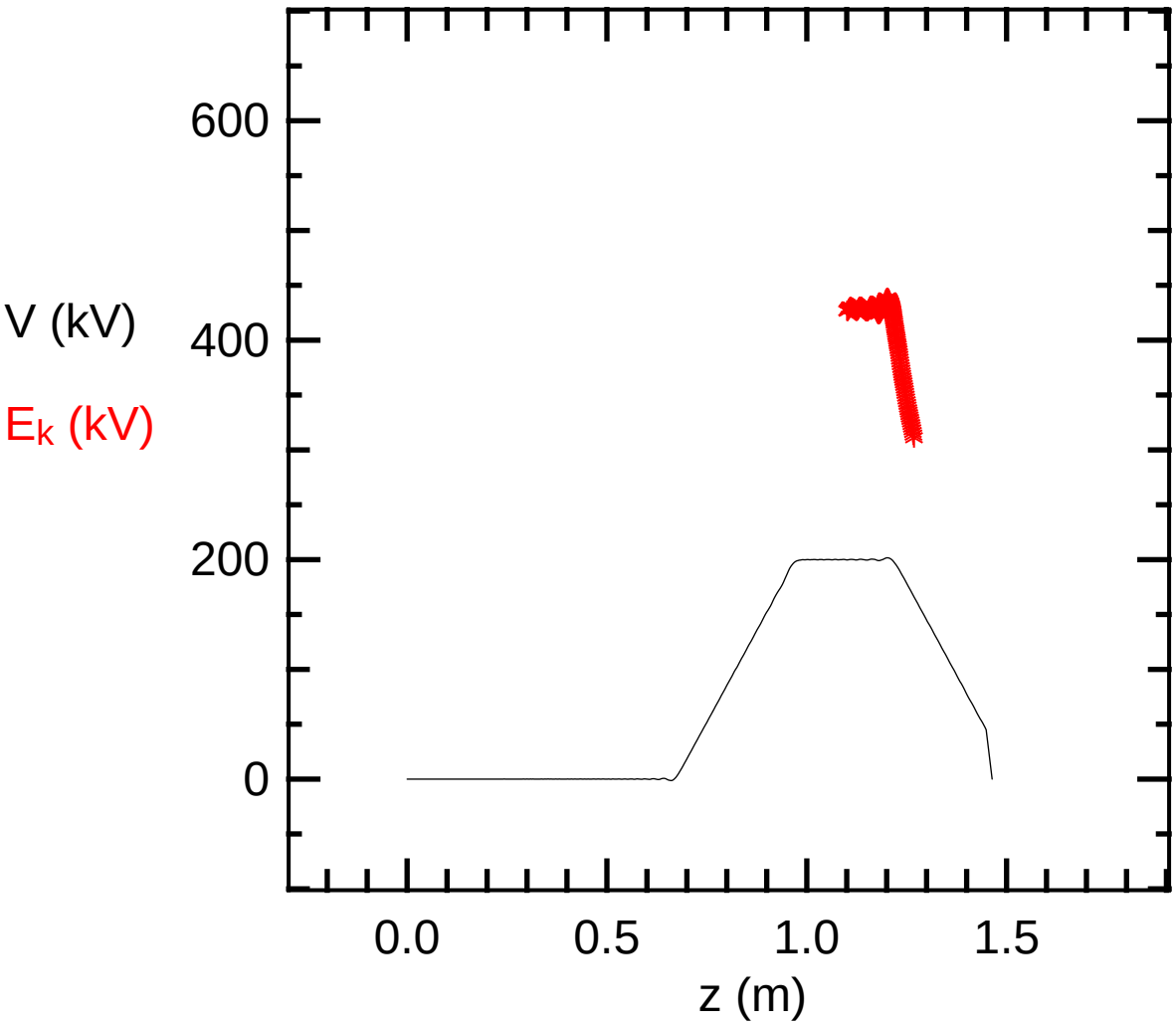
bunching factor = 3.152



it = 36000

time = 360.000 ns

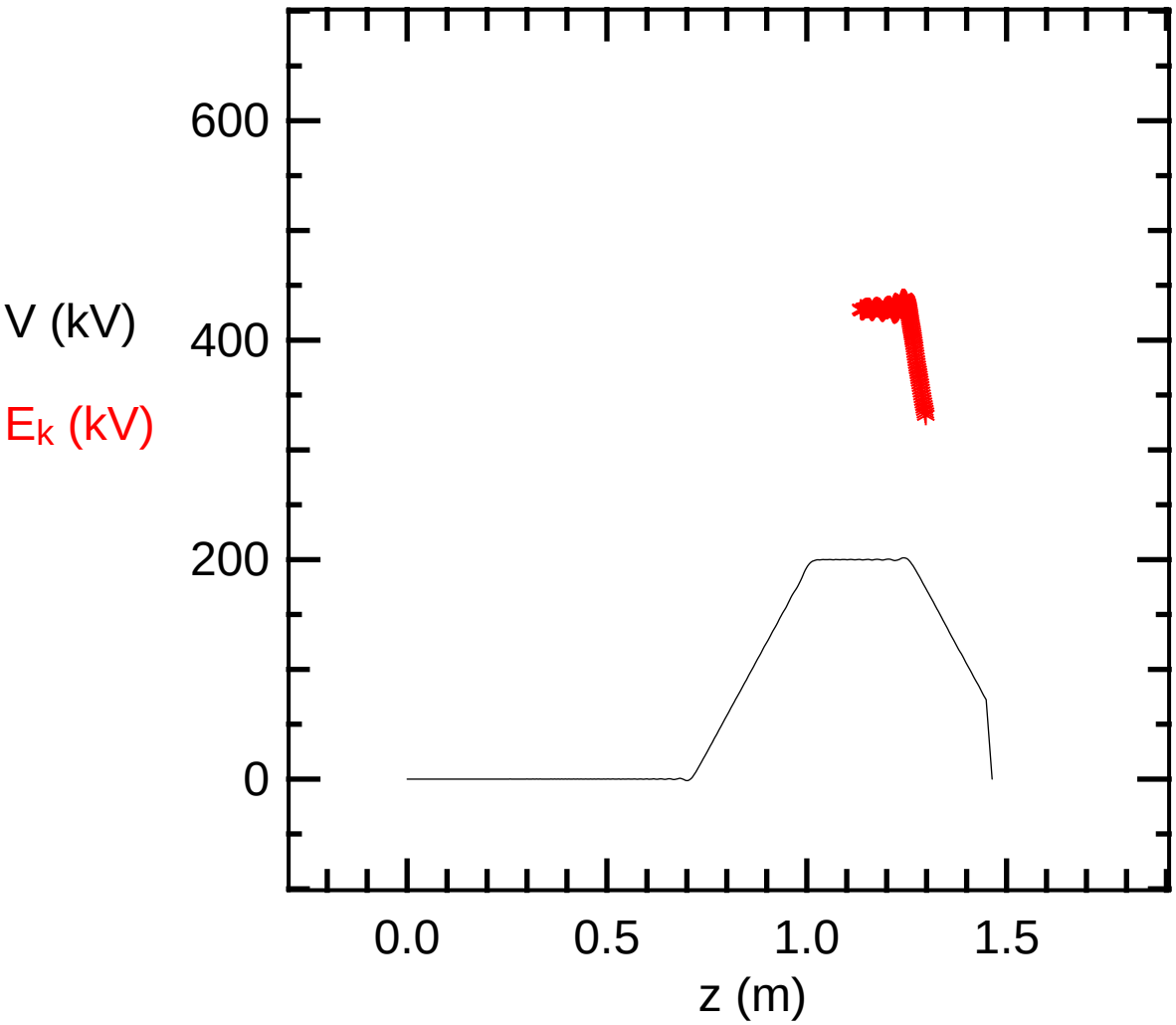
bunching factor = 3.271



it = 37000

time = 370.000 ns

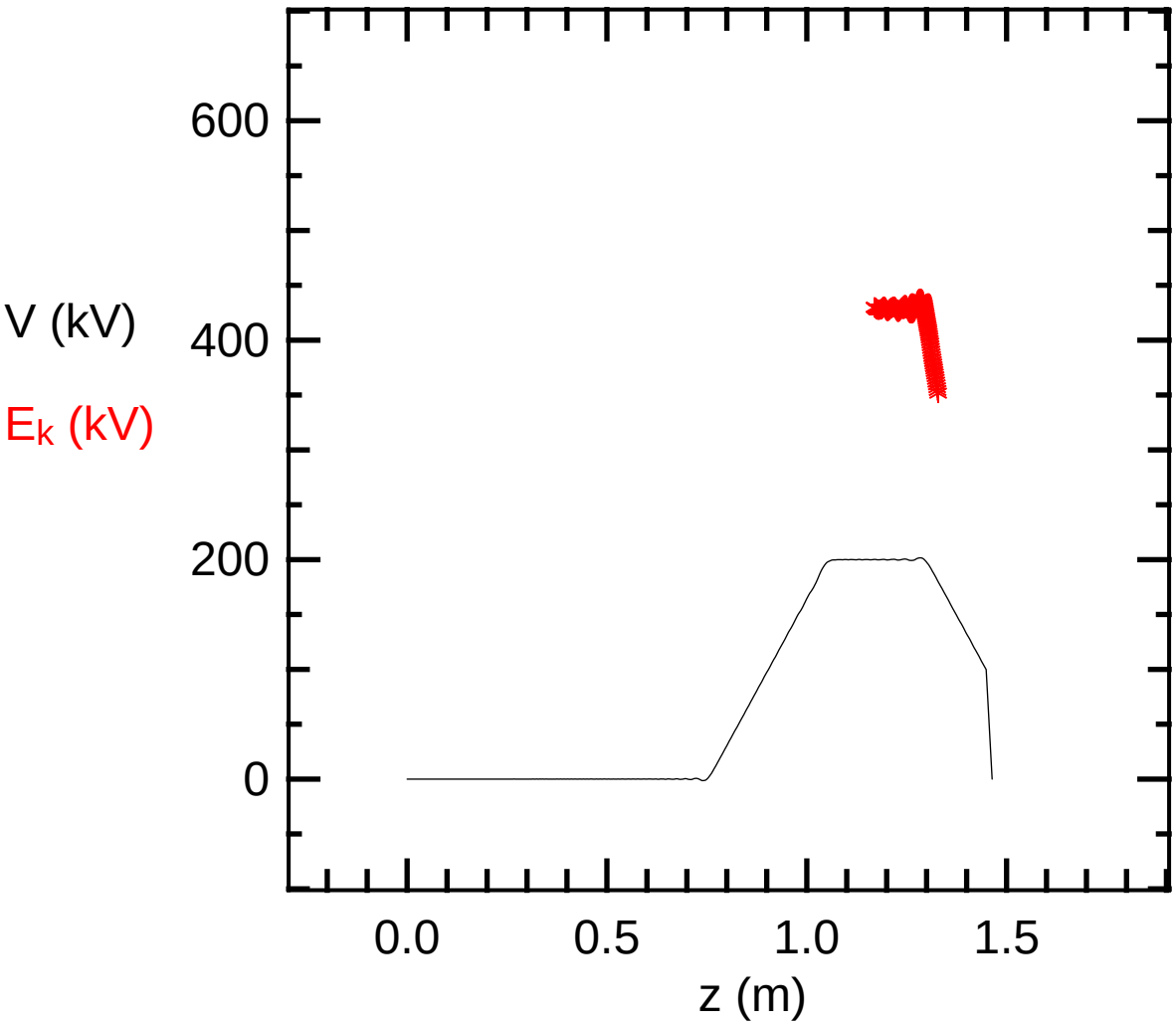
bunching factor = 3.378



it = 38000

time = 380.000 ns

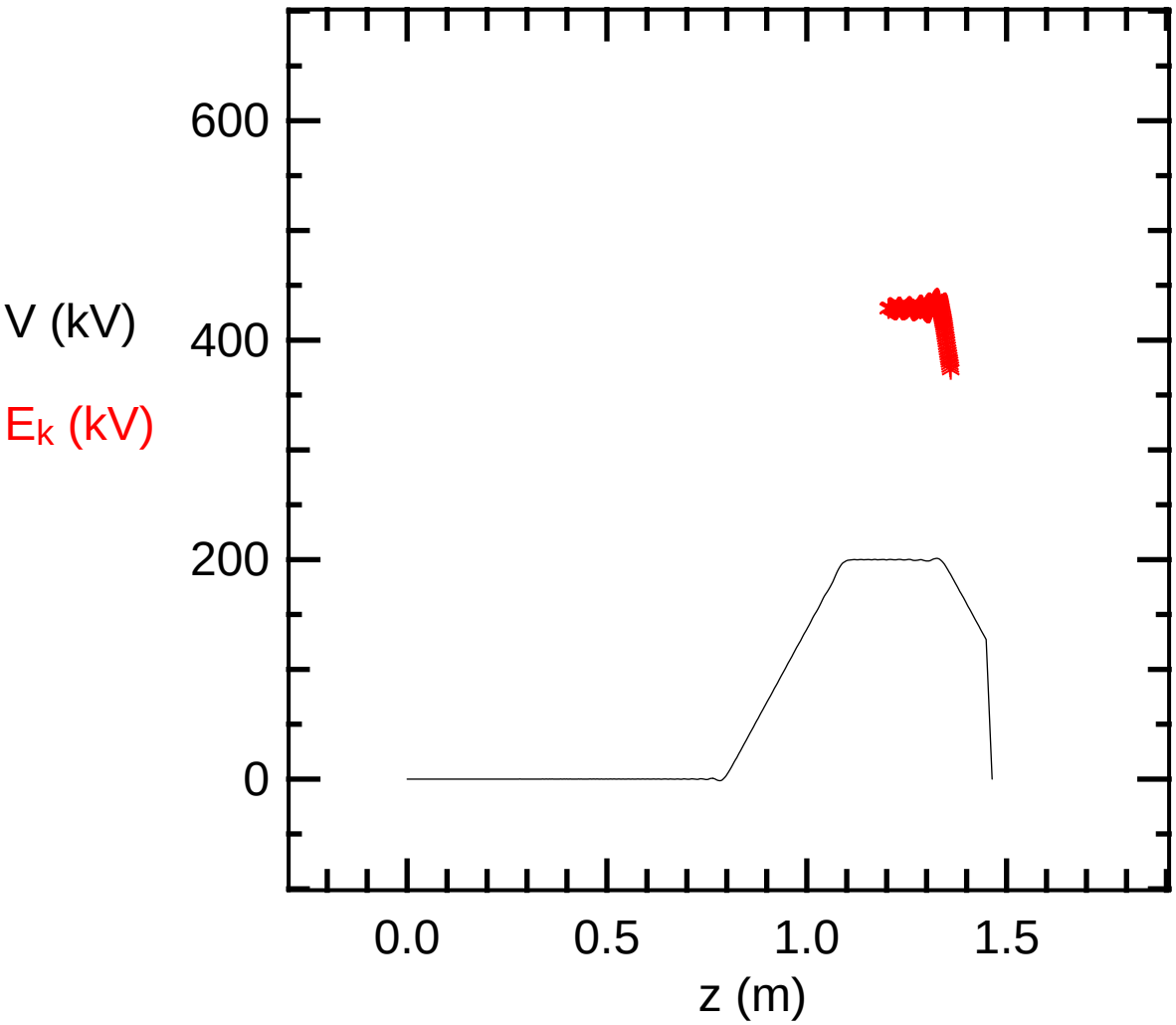
bunching factor = 3.473



it = 39000

time = 390.000 ns

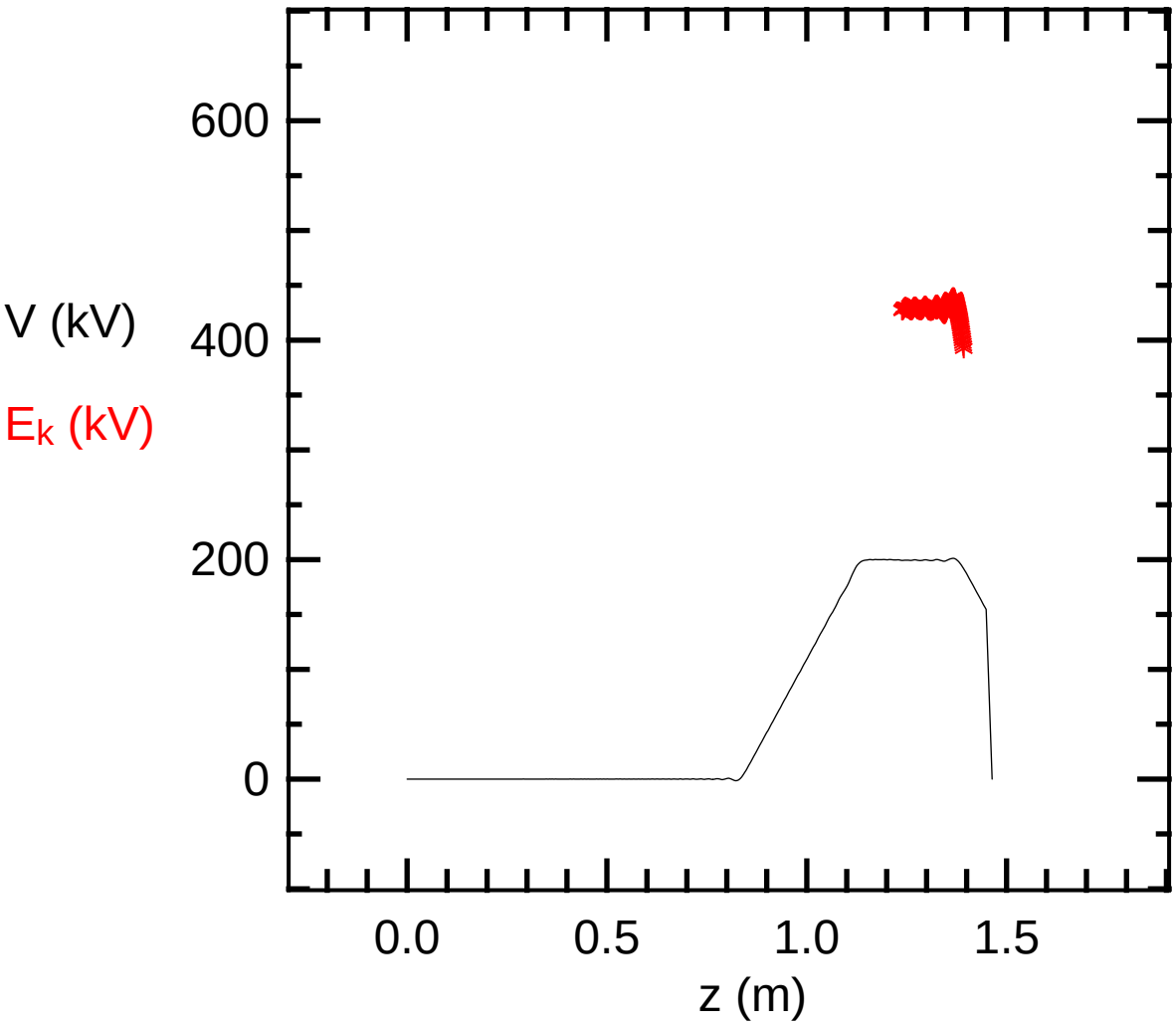
bunching factor = 3.554



it = 40000

time = 400.000 ns

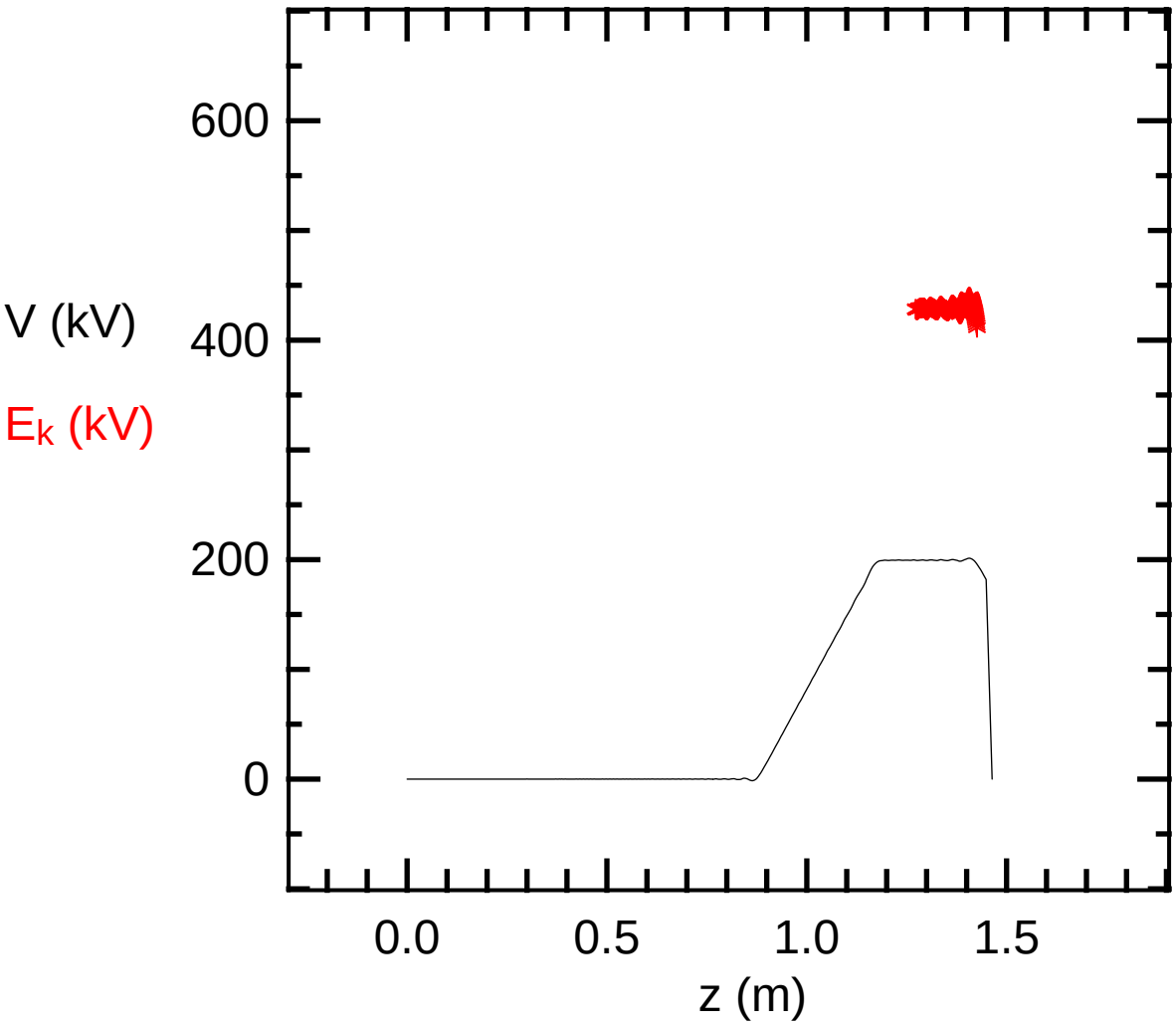
bunching factor = 3.618



it = 41000

time = 410.000 ns

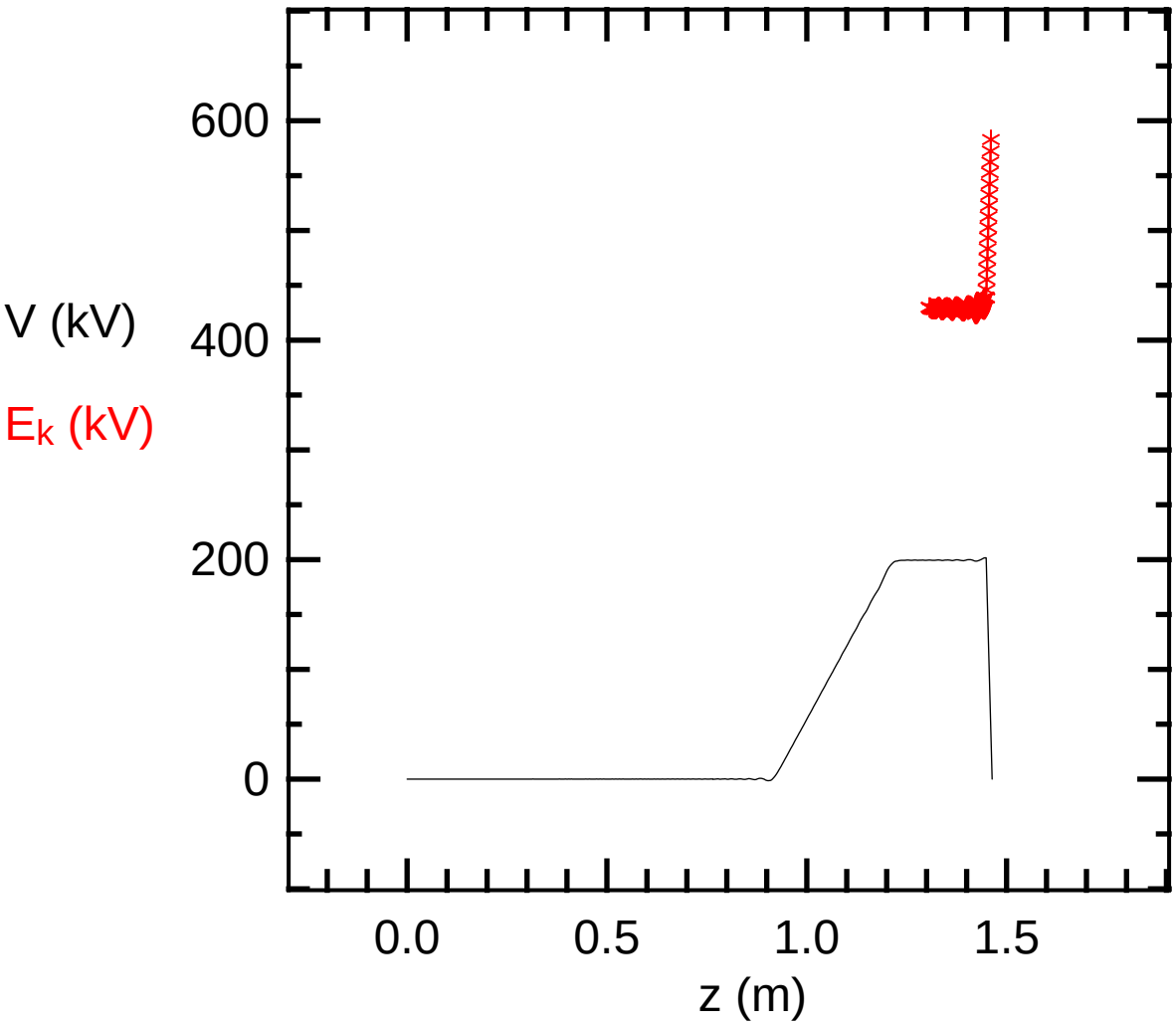
bunching factor = 3.662



it = 42000

time = 420.000 ns

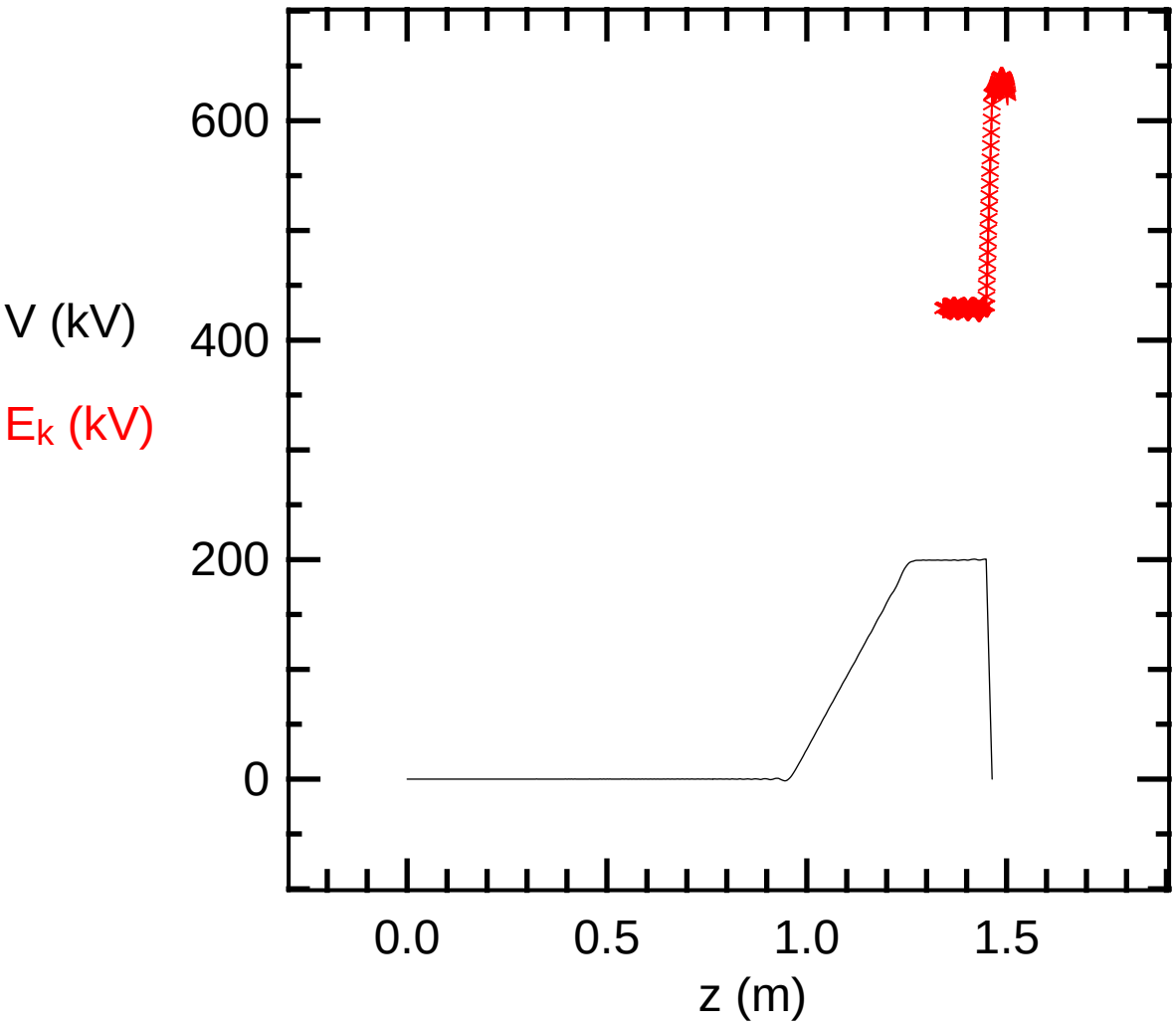
bunching factor = 3.686



it = 43000

time = 430.000 ns

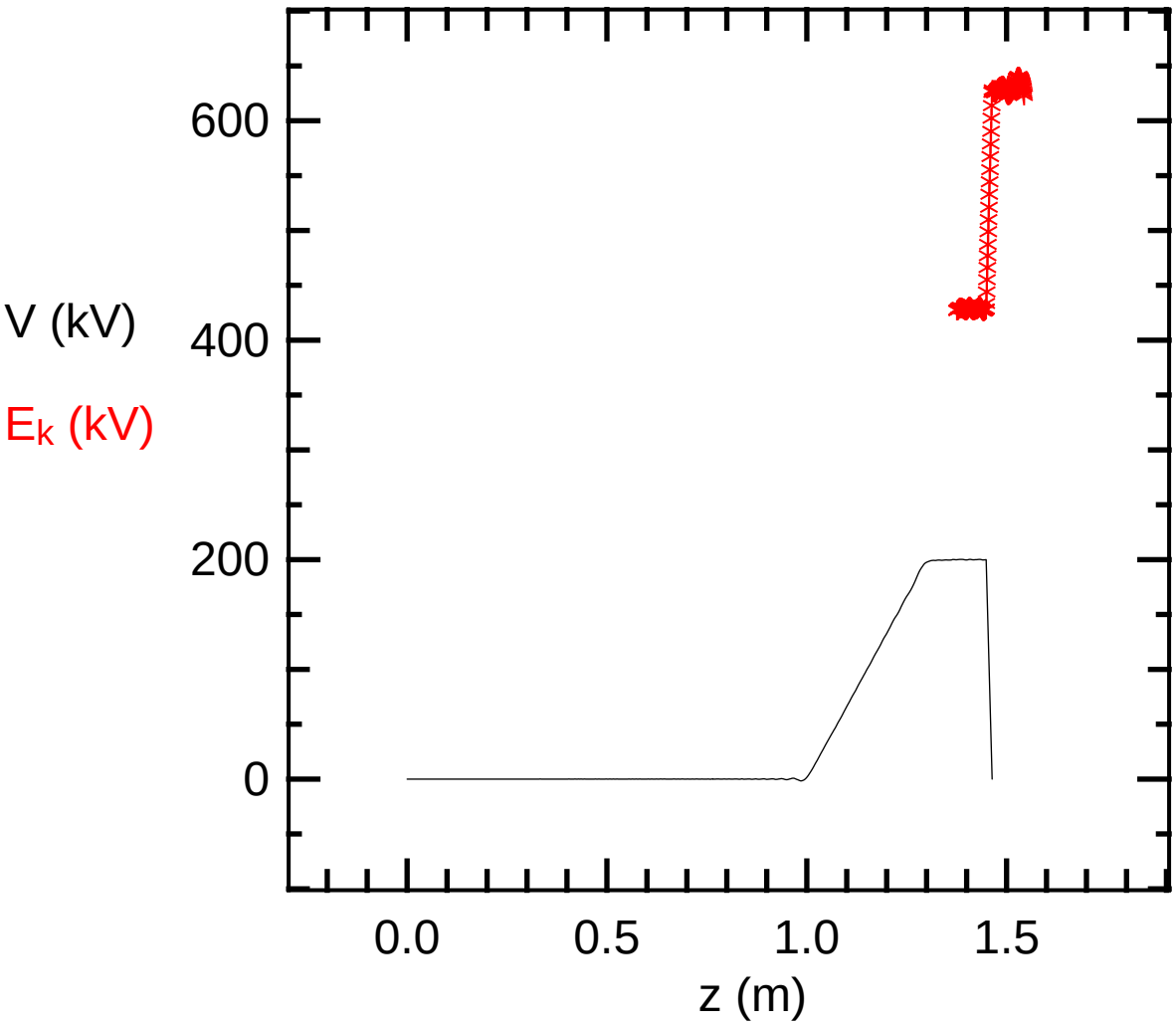
bunching factor = 3.674



it = 44000

time = 440.000 ns

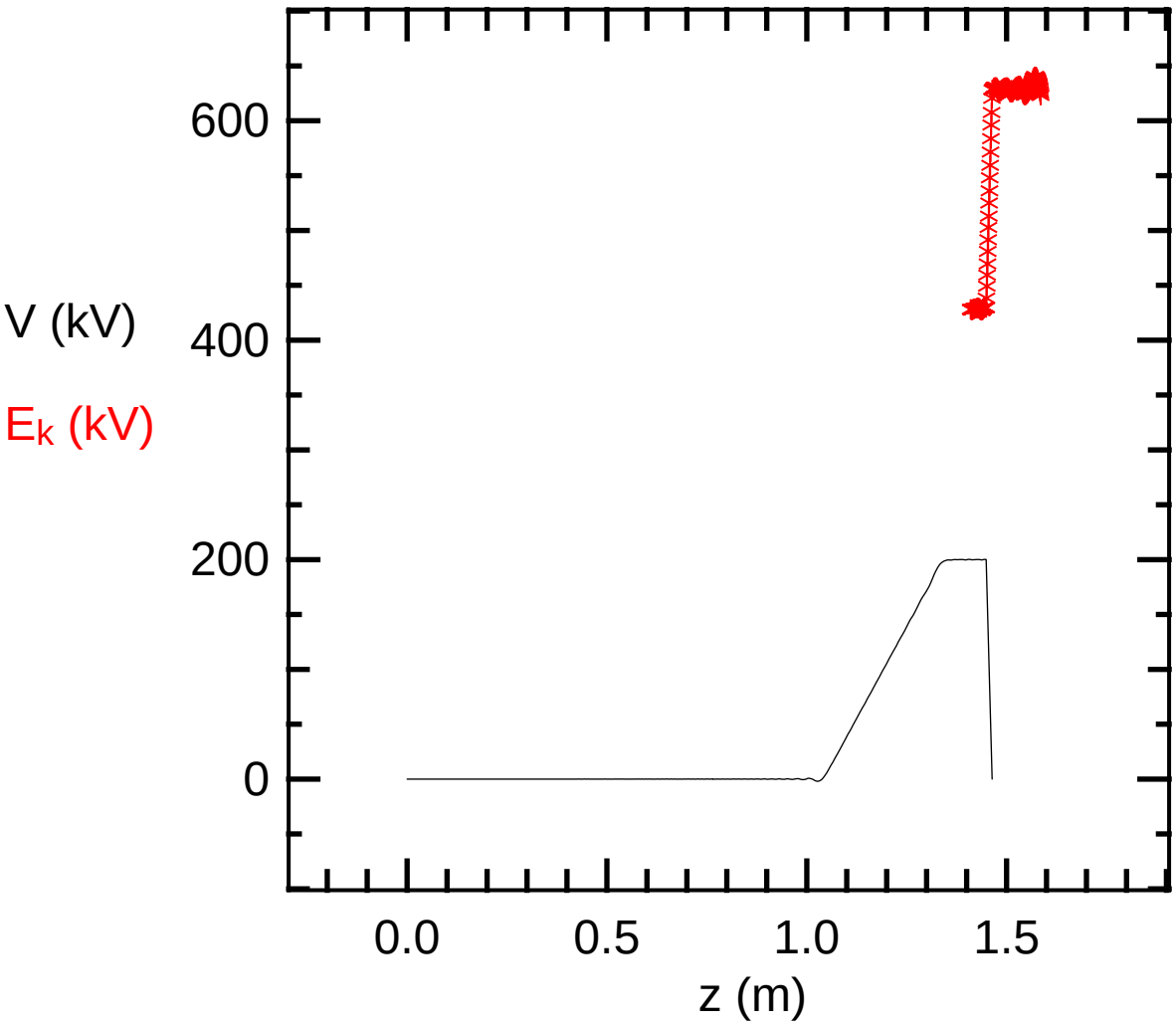
bunching factor = 3.514



it = 45000

time = 450.000 ns

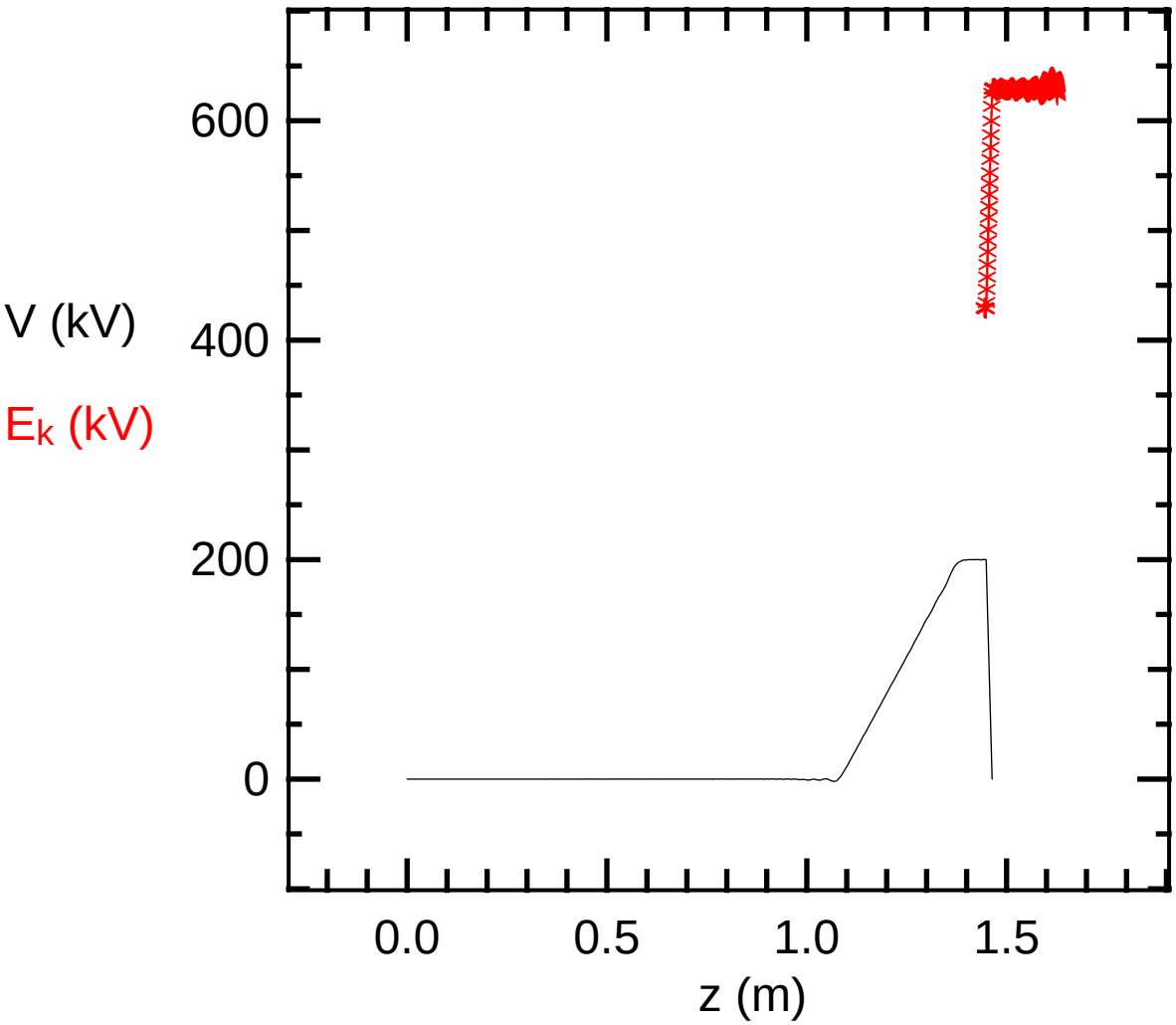
bunching factor = 3.366



it = 46000

time = 460.000 ns

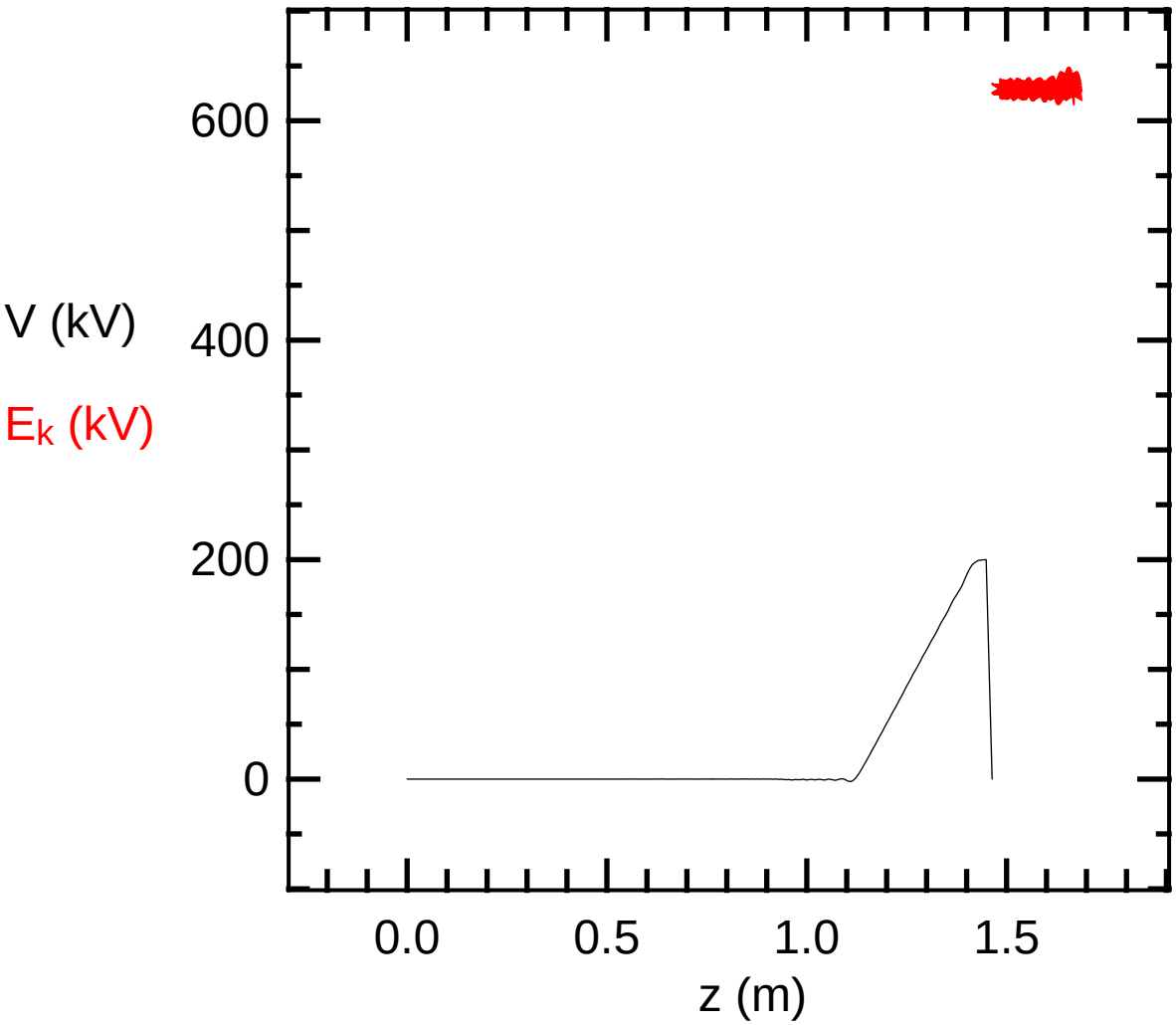
bunching factor = 3.229



it = 47000

time = 470.000 ns

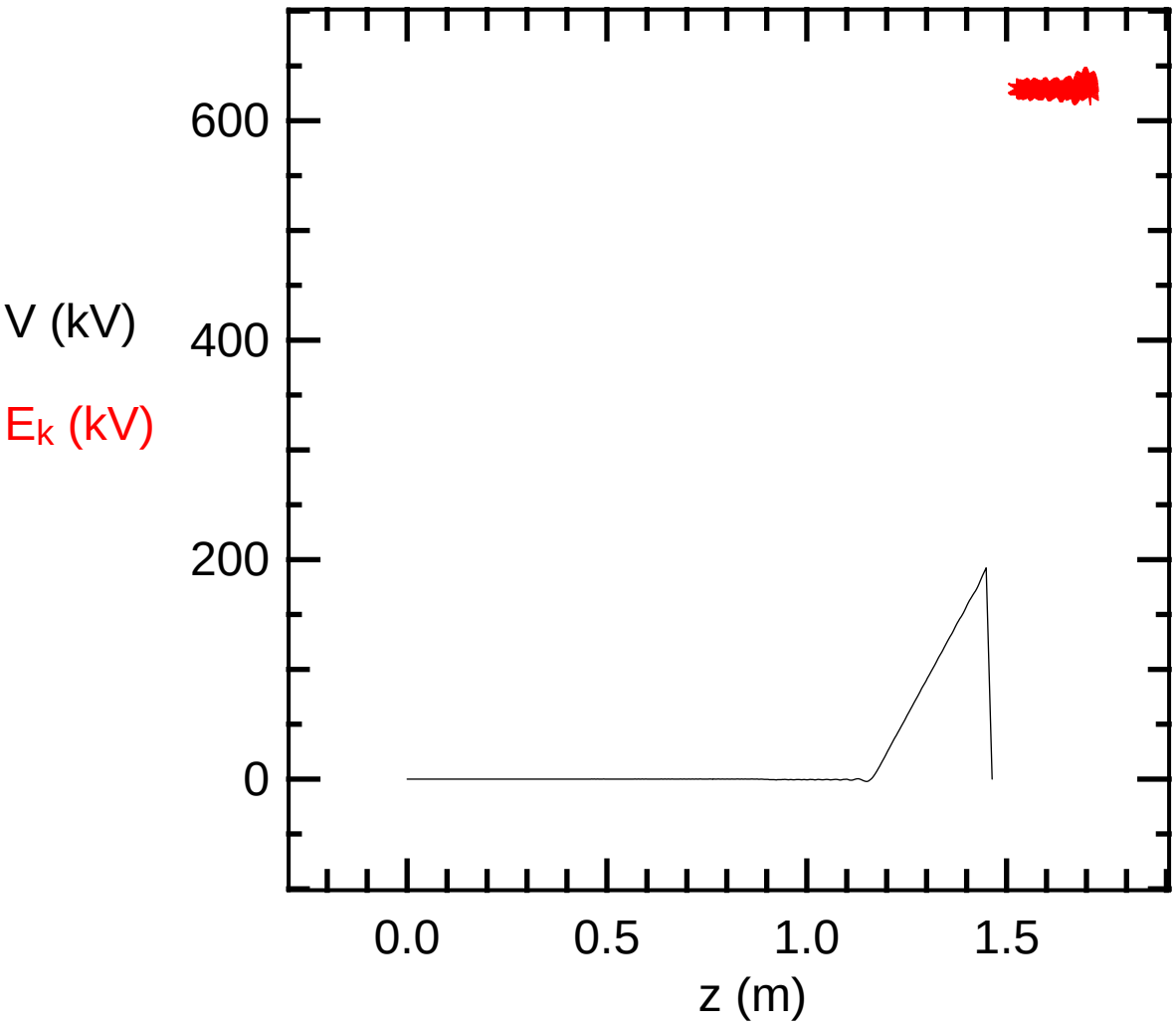
bunching factor = 3.104



it = 48000

time = 480.000 ns

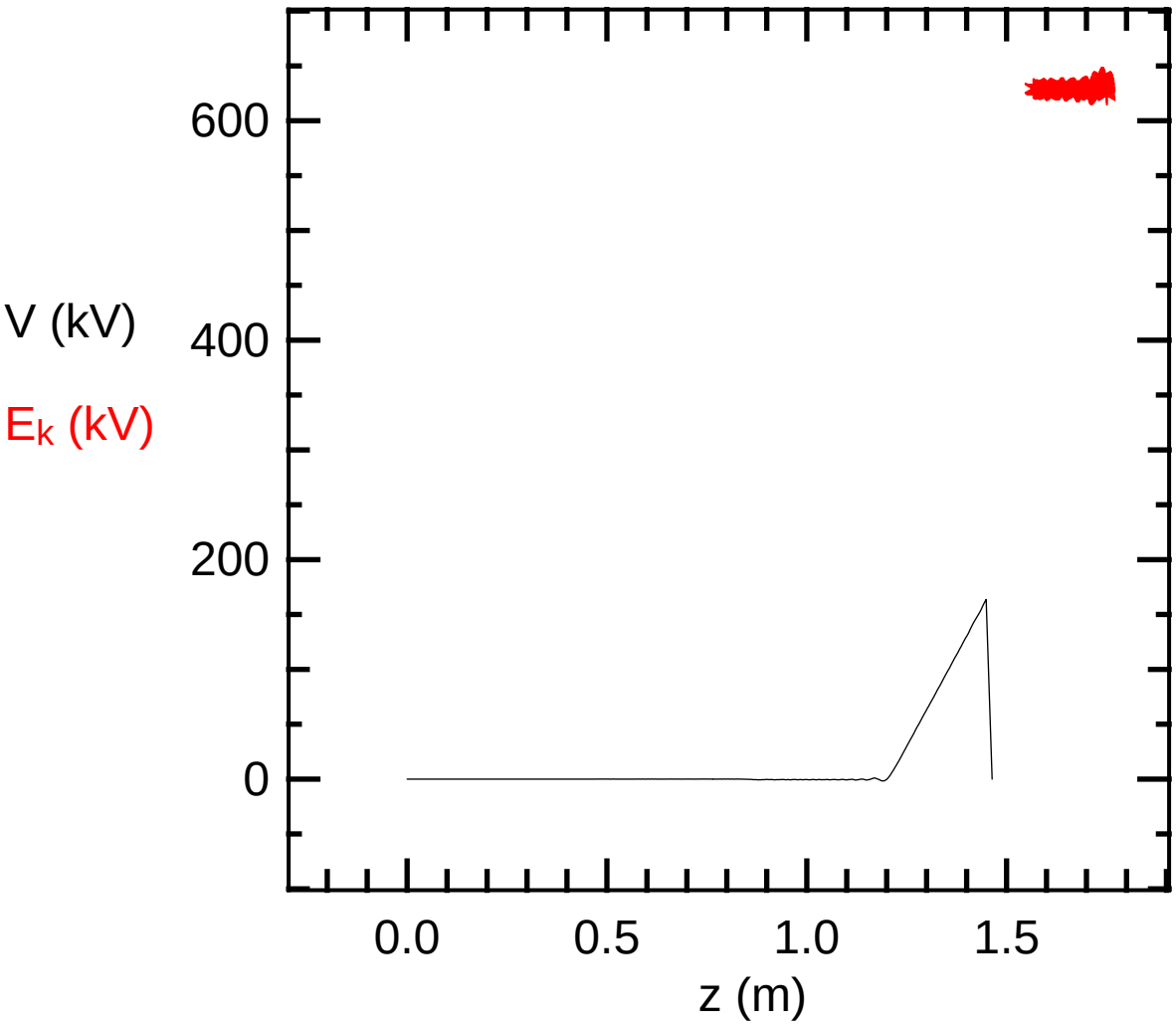
bunching factor = 3.068



it = 49000

time = 490.000 ns

bunching factor = 3.071



it = 50000

time = 500.000 ns

bunching factor = 3.075