0.1 kCSD for Ballstick Modell

Parameters:

```
Number of electrodes: 10

Number of base functions: 18

Type of base functions: step

Width of base functions: 30 um

sigma: 0.5

Shift of overlapping of base functions: 27.7777777777778 um

Cell to electrode distance: 30
```

Units:

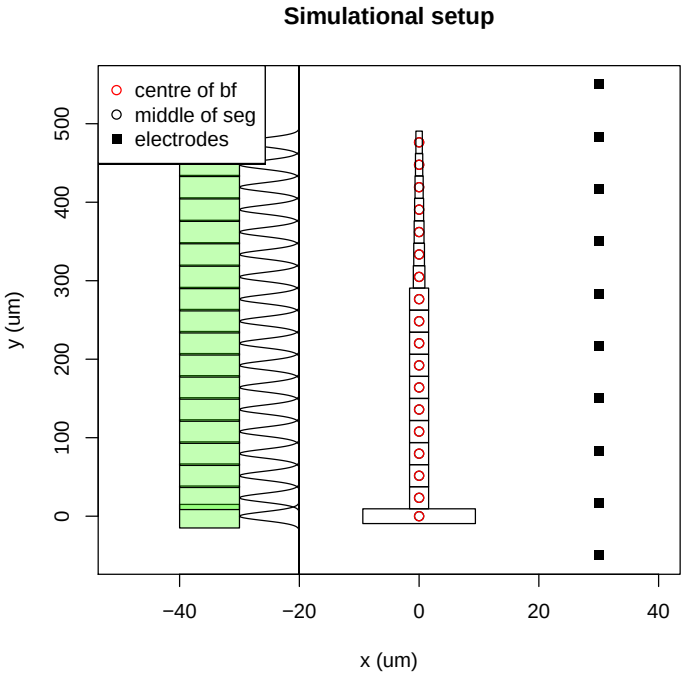
```
Potential           [mV]

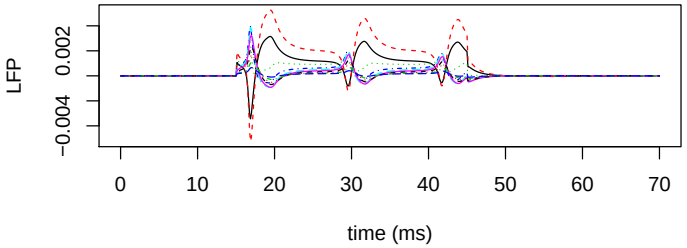
Current      [nA]

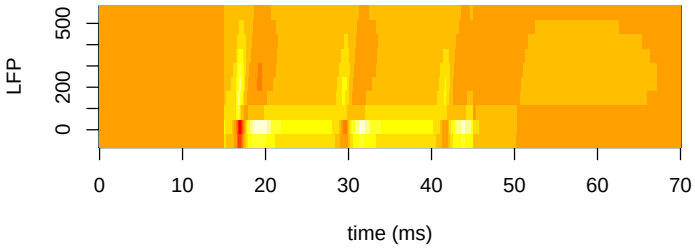
Conductivity [S/m]

Dimension           [µm]

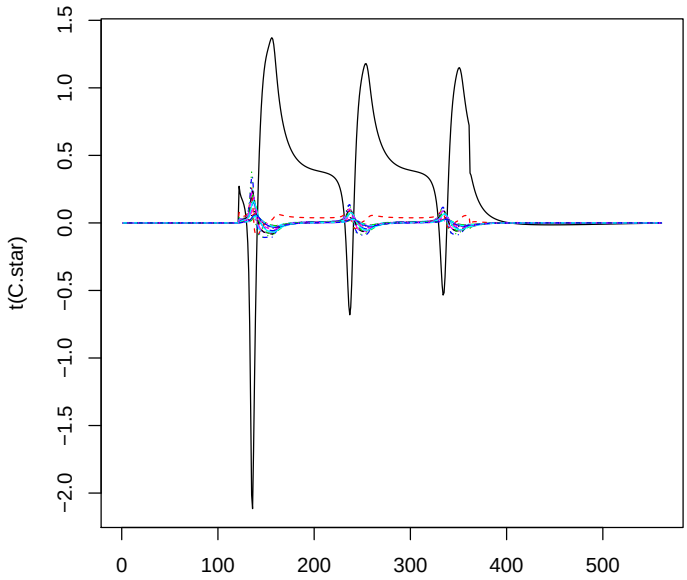
X11cairo
       2
```



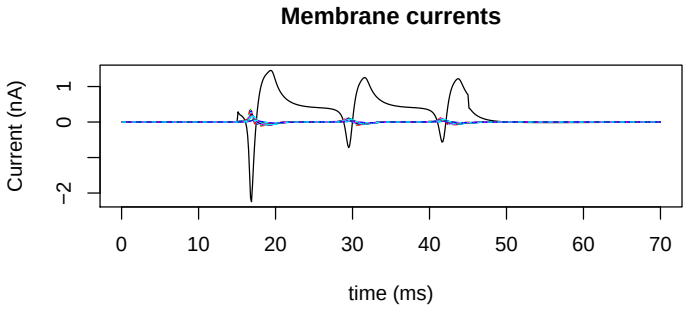


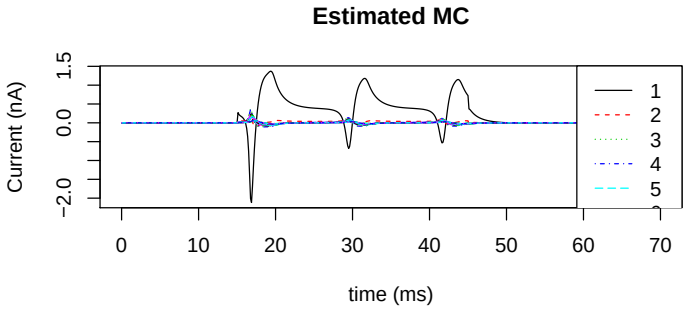


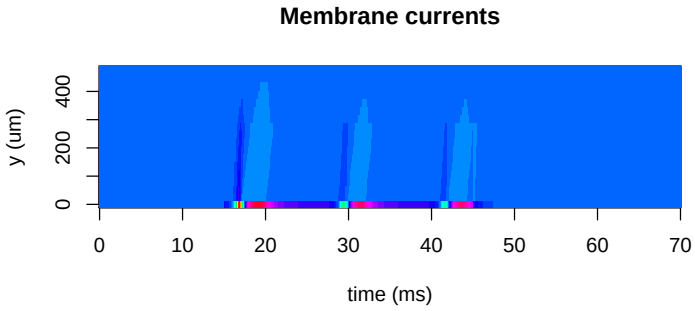
Nem vagyok benne biztos, hogy ez jó... Most kell kiszámolni az adott pontforrásokban a különböző Gaussok amplitúdóját és azokat összeadni, ezt egy mátrixban a legegyszerűbb ábrázolni. A sorok a különböző pontforrásokat jelzik, az oszlopok a különböző Gauss függvényeket, a rácspontokban az amplitúdók

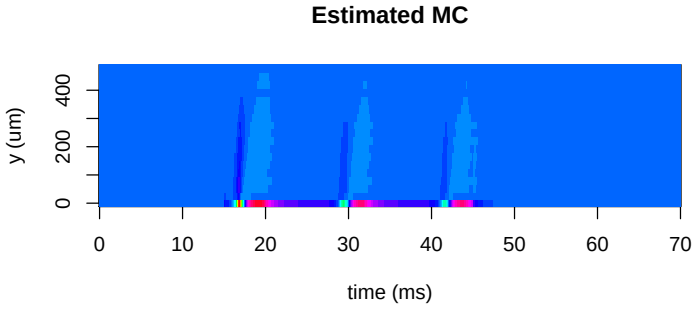

t(C.star)
1.5
1.0
0.5
0.0
−0.5
−1.0
−1.5
−2.0
0
100
200
300
400
500

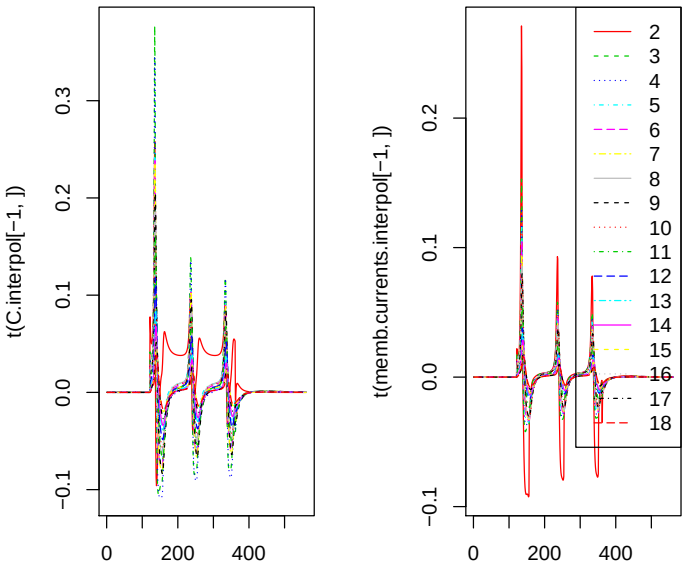
állnak...


Membrane currents
Current (nA)
1
0
−2
0
10
20
30
40
50
60
70
time (ms)

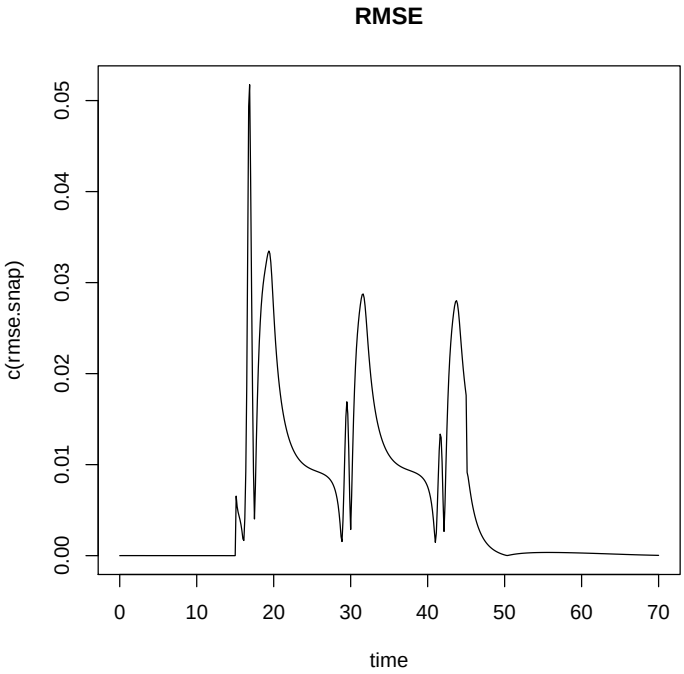

Estimated MC
Current (nA)
1.5
0.0
−2.0
0
10
20
30
40
50
60
70
time (ms)
1
2
3
4
5

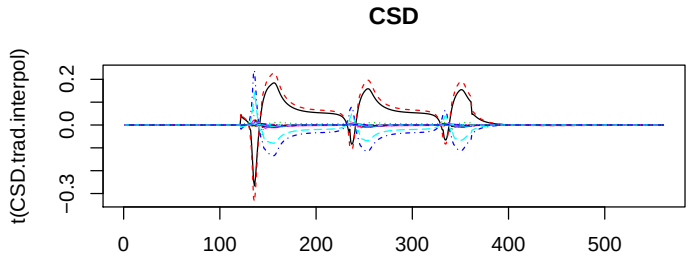


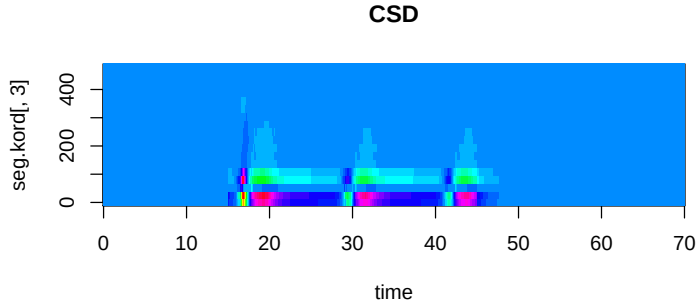


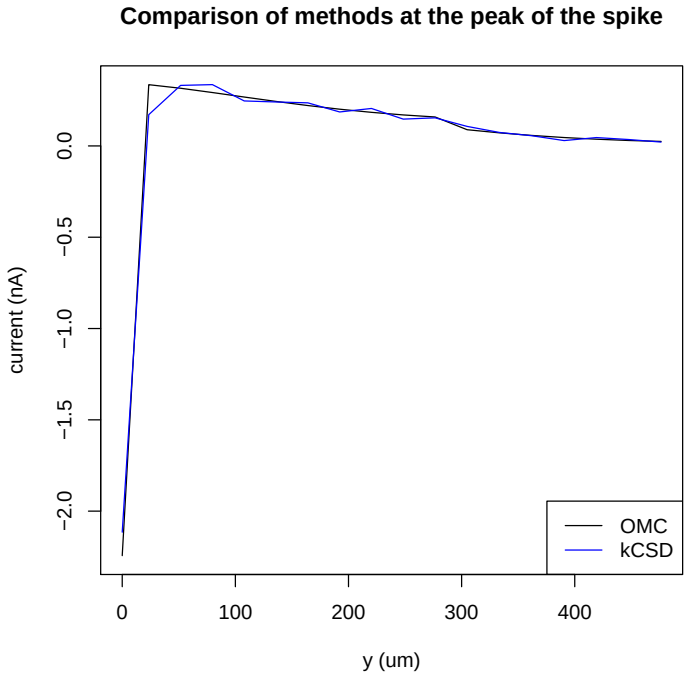



```
Overall RMSE 0.0110068825671664
```

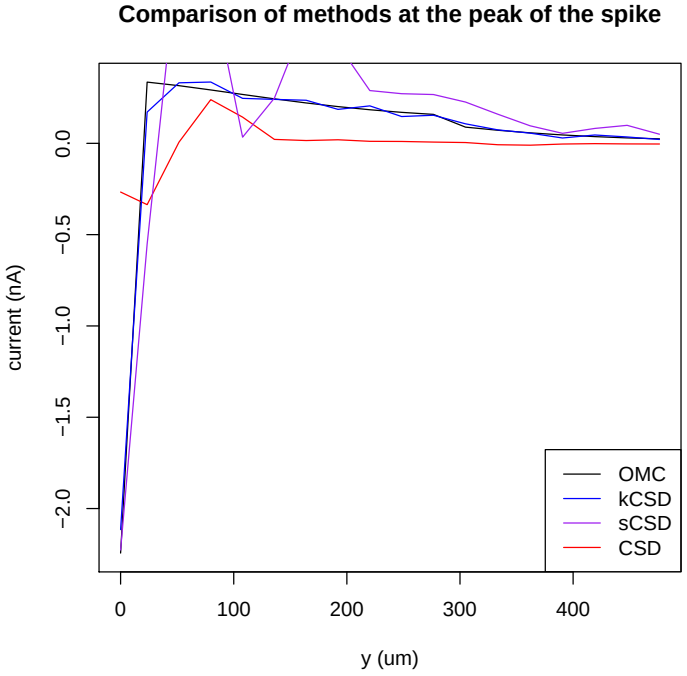

RMSE
c(rmse.snap)
0.00
0.01
0.02
0.03
0.04
0.05
0
10
20
30
40
50
60
70
time


CSD
t(CSD.trad.interpol)
−0.3
0.0
0.2
0
100
200
300
400
500


CSD
seg.kord[, 3]
0
200
400
0
10
20
30
40
50
60
70
time



Spatial distribution at spike:

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Spike rmse: 0.0517455859301027
```