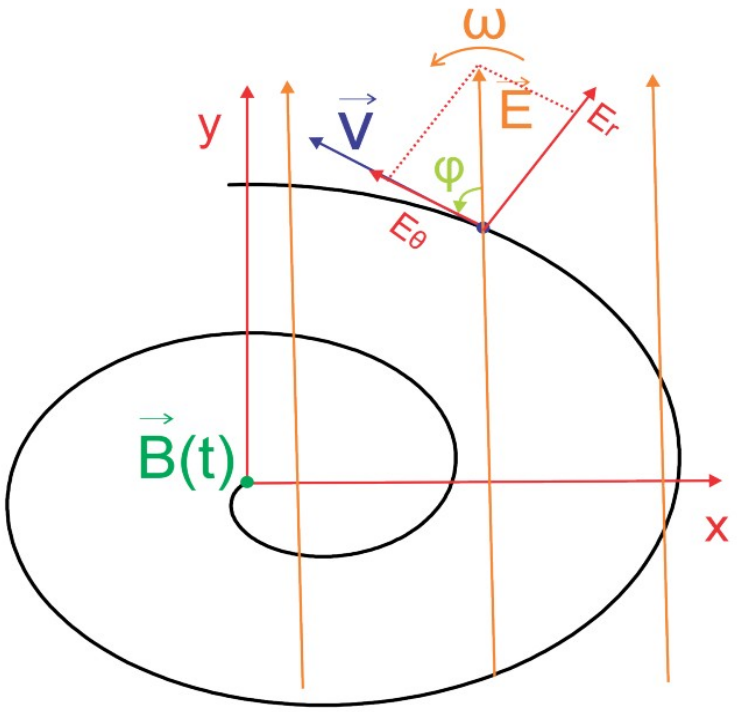
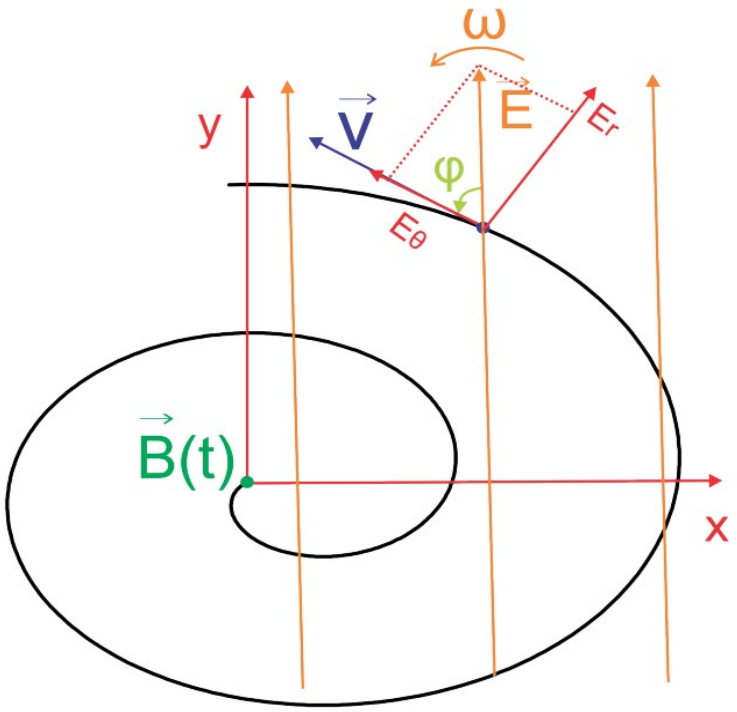
Simulación de electrones en un mecanismo Gyrac

- Representación esquemática
- Organización de la información
- Testing
- Resultados de interés

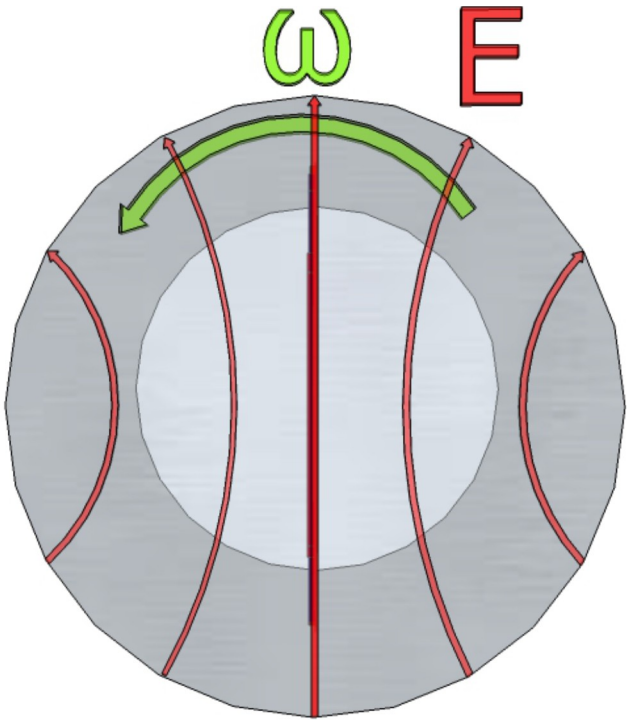
Representación esquemática

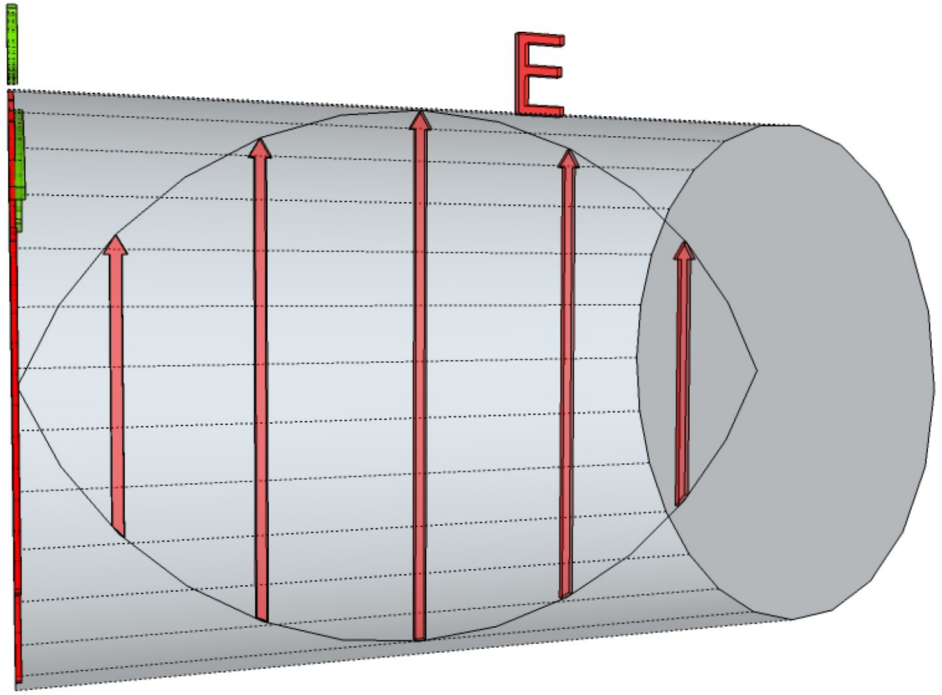


Representación esquemática

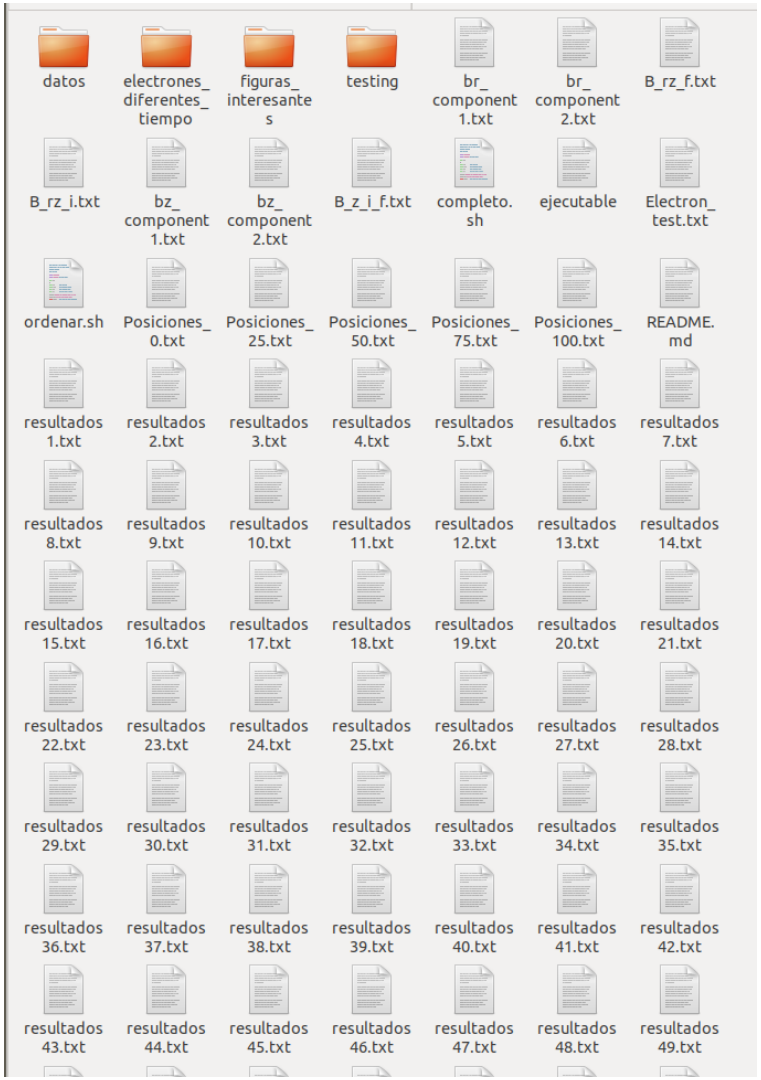


Representación esquemática

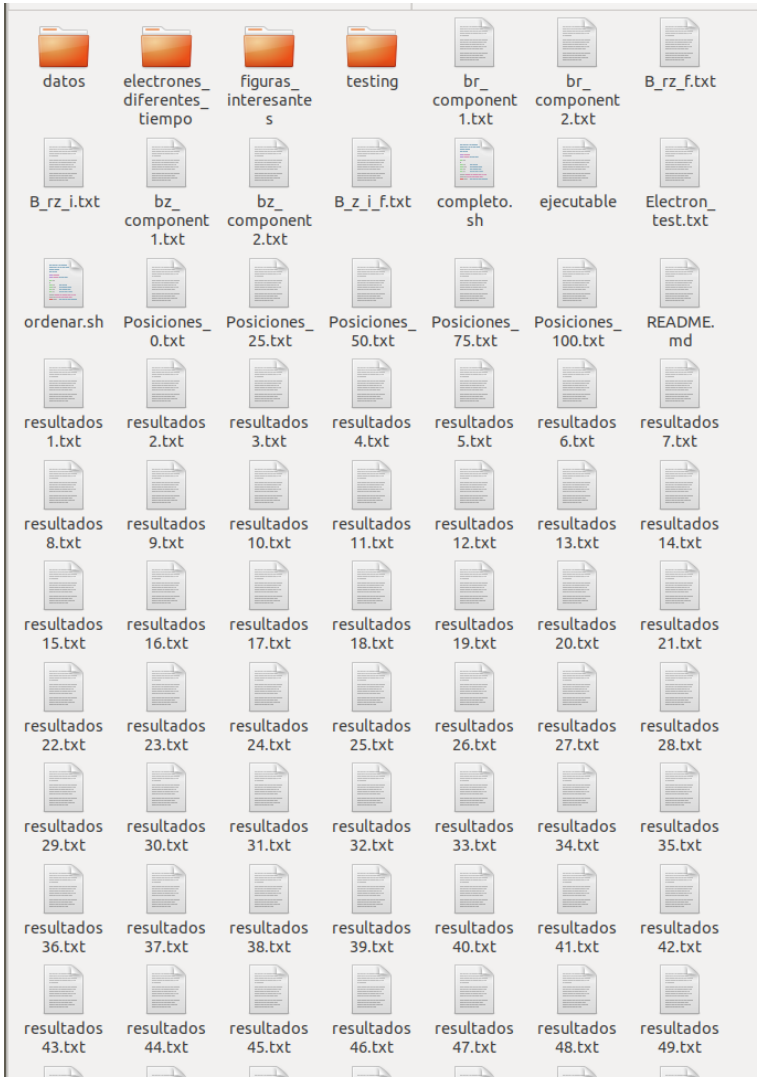




Organización de la información



Organización de la información

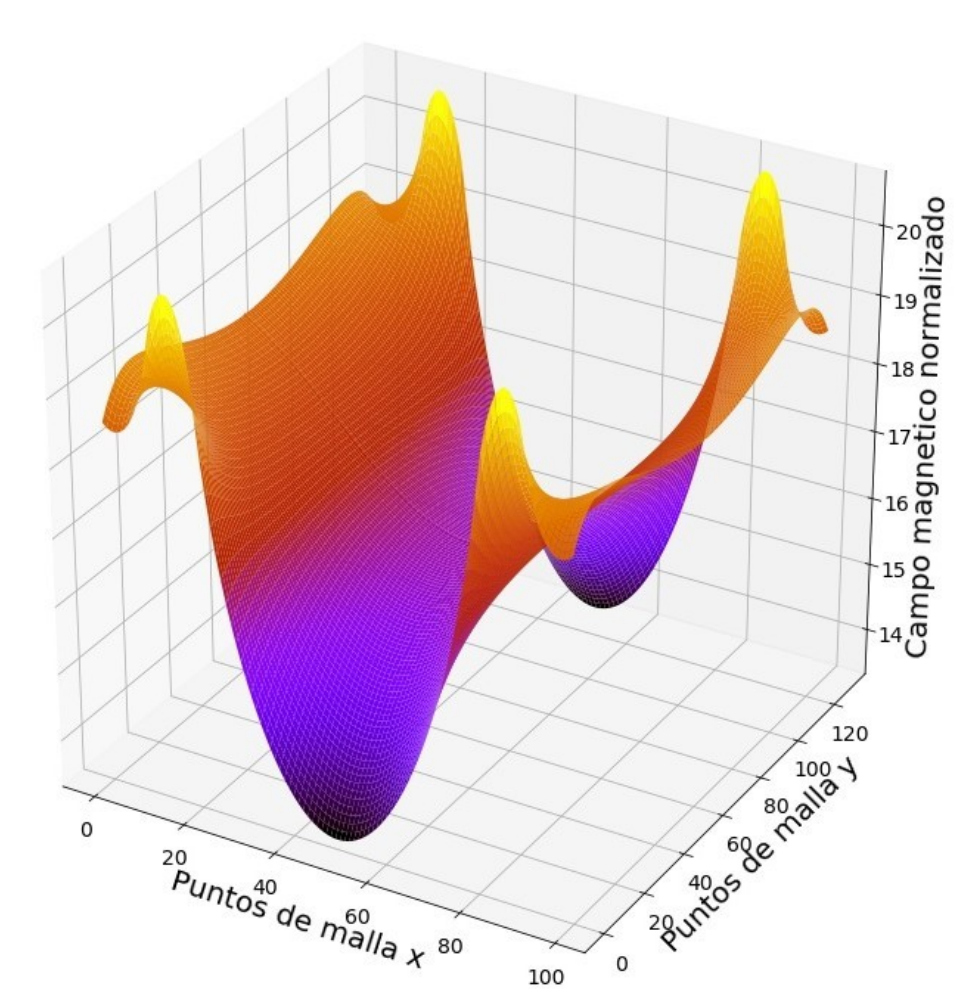


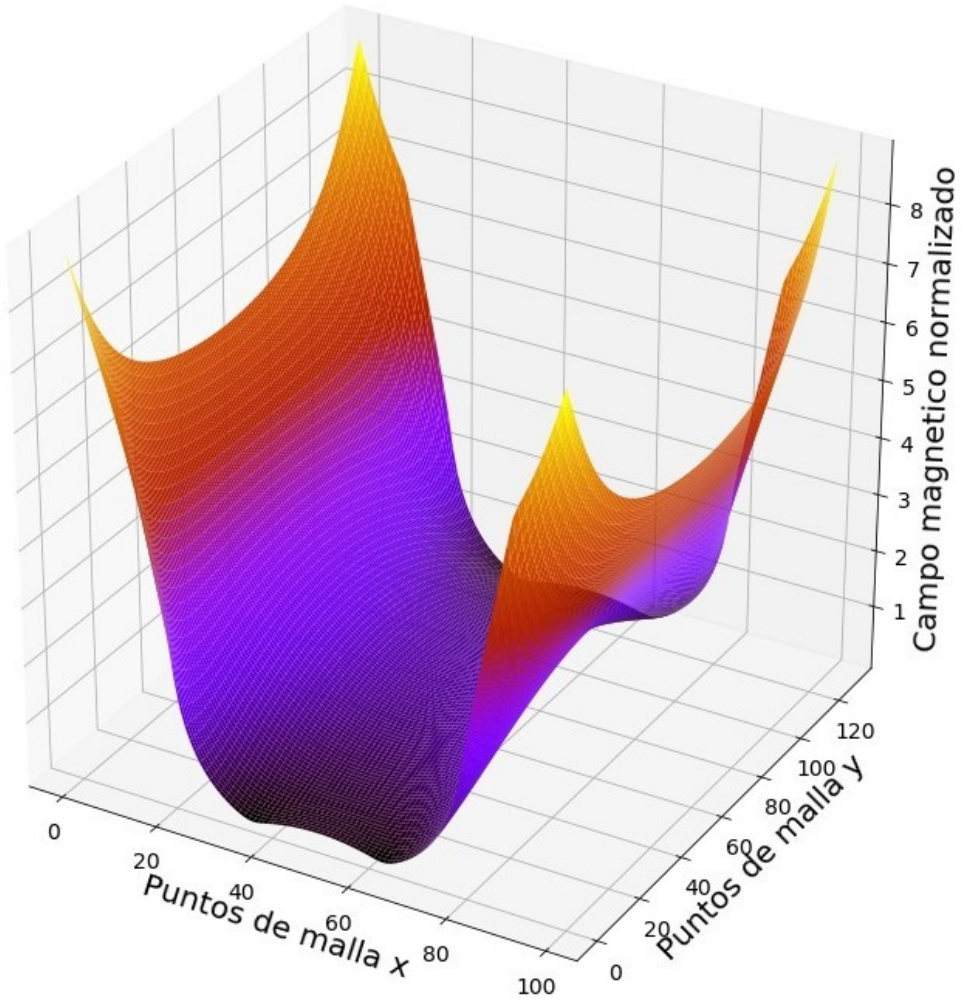
Open

ordenar.sh
~/Desktop/Proyecto-final--master

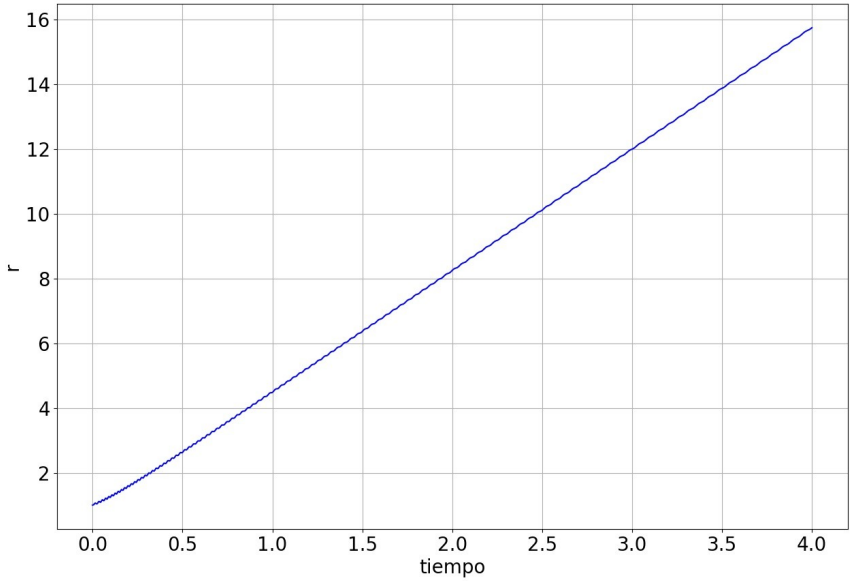
```
#!/bin/bash
        '''ESTE BASH ME ORDENA LOS ARCHIVOS EN LA CARPTA CORRESPONDIENTE '''

        for i in resul*.txt;
        do
        mv $i ./datos/;
        done

        for i in Posi*.txt;
        do
        mv $i ./electrones_diferentes_tiempo/;
        done

        for i in B_*.txt;
        do
        mv $i ./testing/;
        done

        mv Electron_test.txt ./testing/;
```

Testing

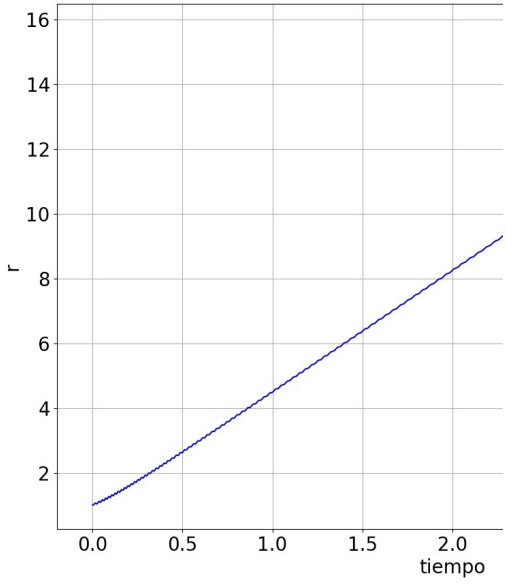

Puntos de malla x
0
20
40
60
80
100
Puntos de malla y
0
20
40
60
80
100
120
Campo magnetico normalizado
14
15
16
17
18
19
20

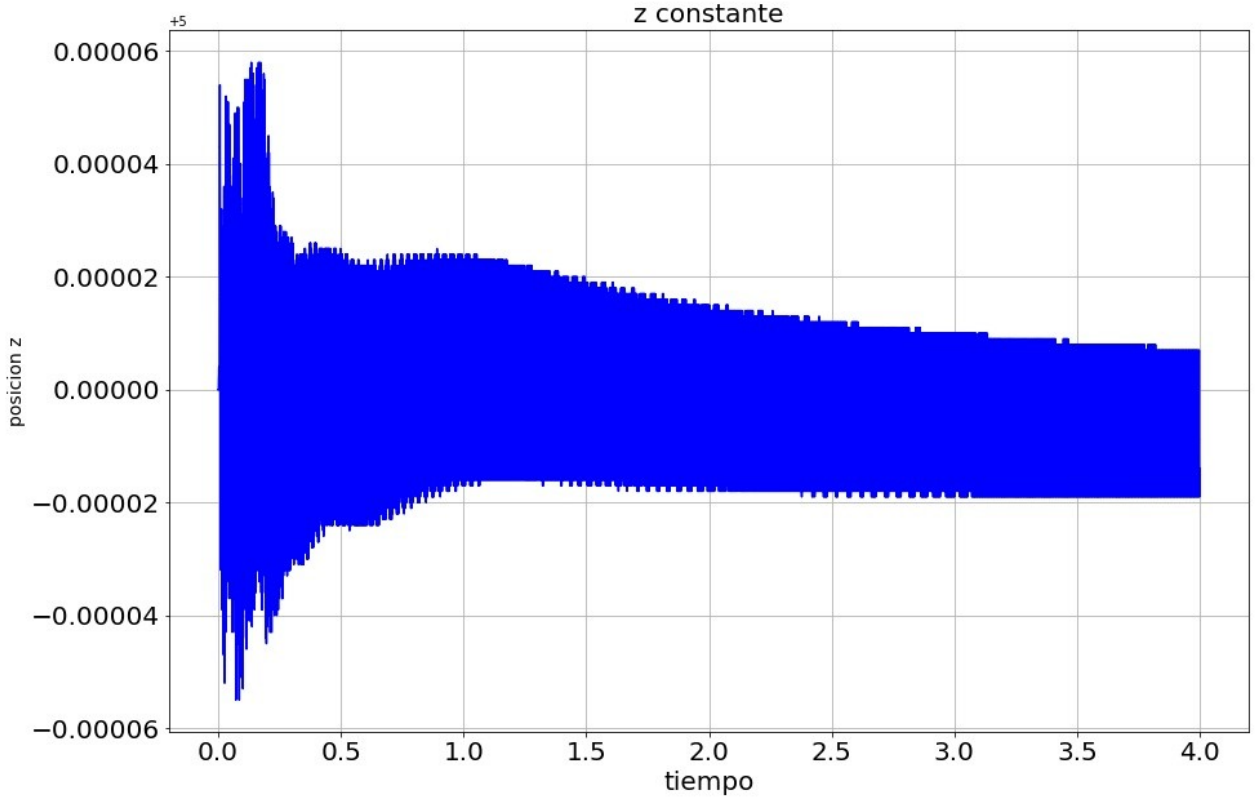

Puntos de malla x
0
20
40
60
80
100
Puntos de malla y
0
20
40
60
80
100
120
Campo magnetico normalizado
1
2
3
4
5
6
7
8

Testing

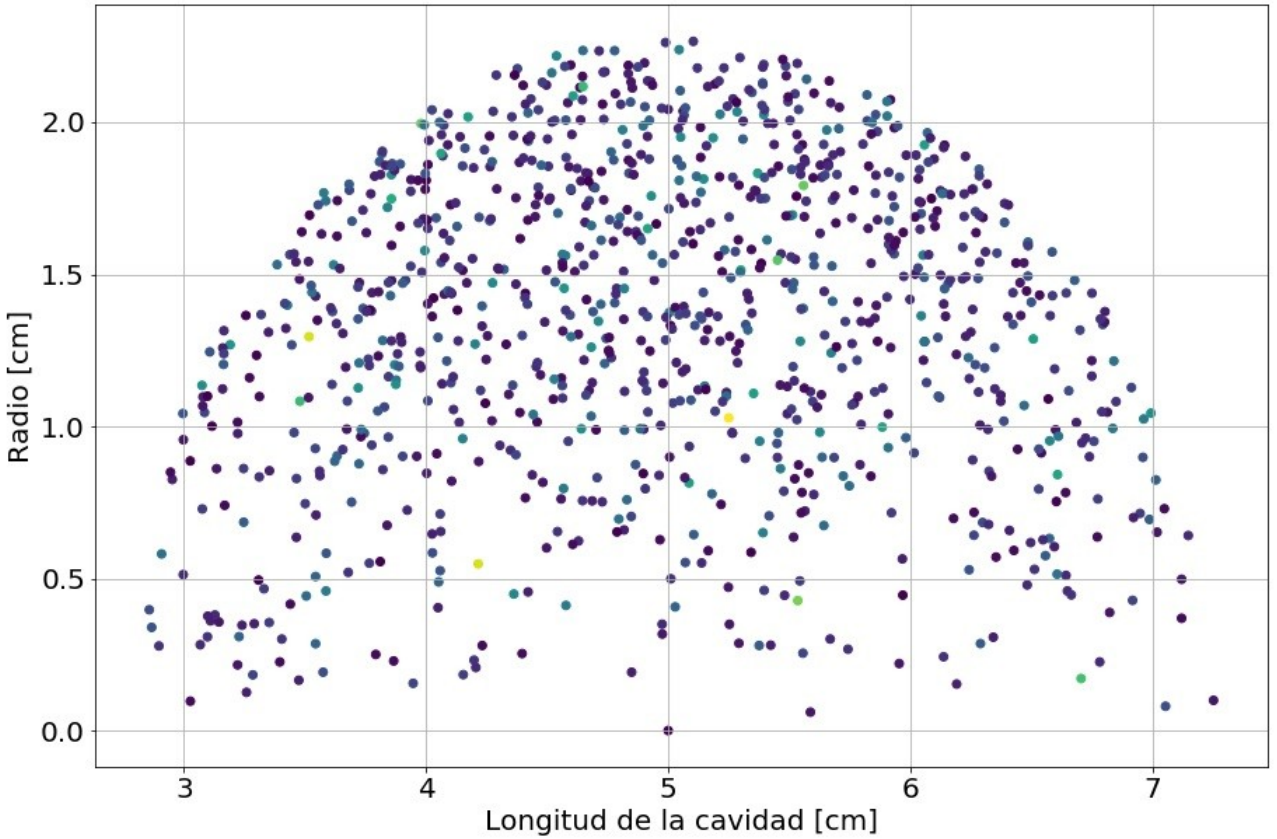


Testing

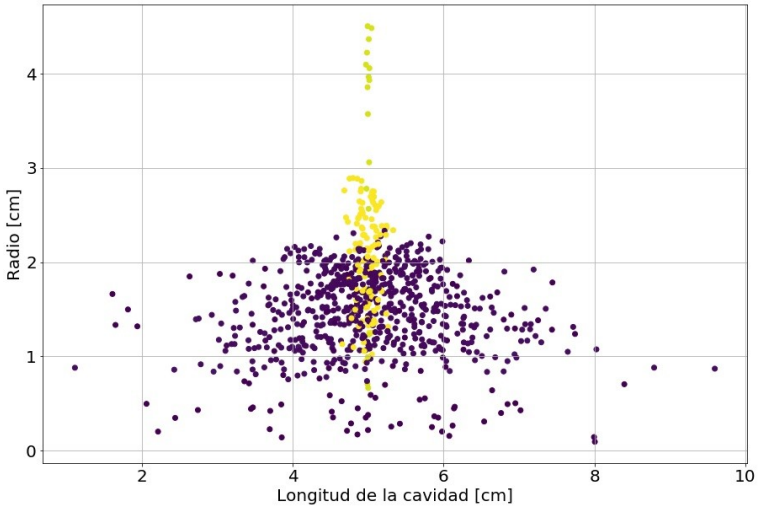

16
14
12
10
8
6
4
2
r
0.0
0.5
1.0
1.5
2.0
tiempo


z constante
+5
0.00006
0.00004
0.00002
0.00000
−0.00002
−0.00004
−0.00006
posicion z
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
tiempo

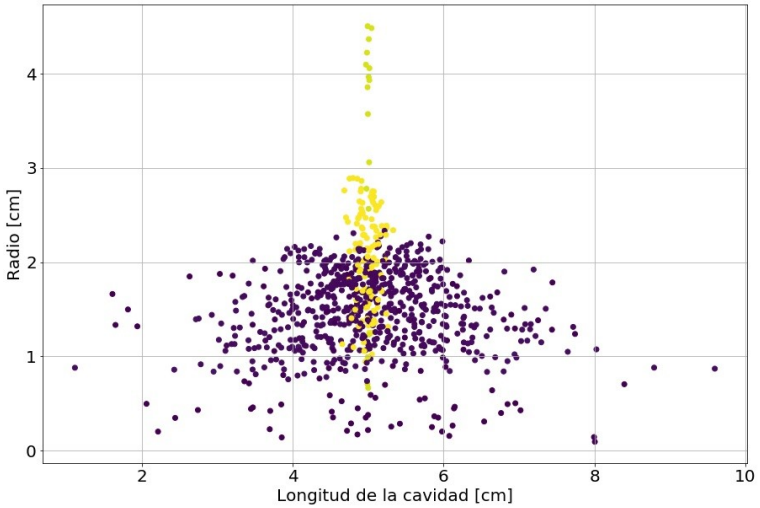
Electrones en diferentes instantes de tiempo

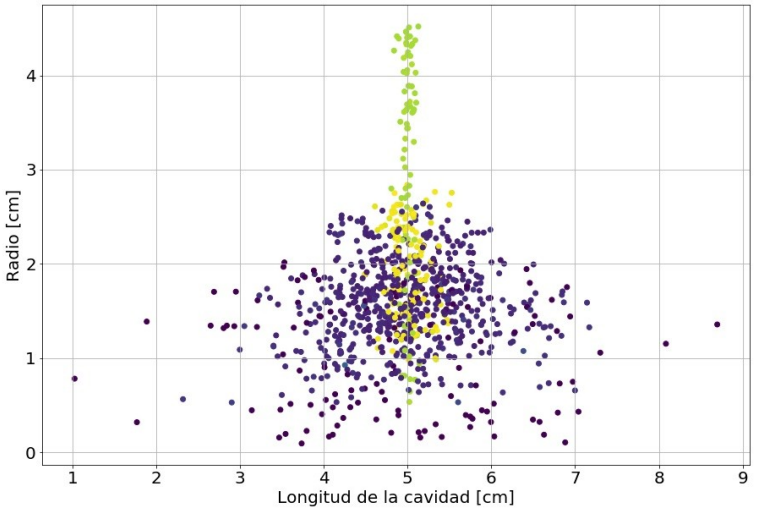


Electrones en diferentes instantes de tiempo

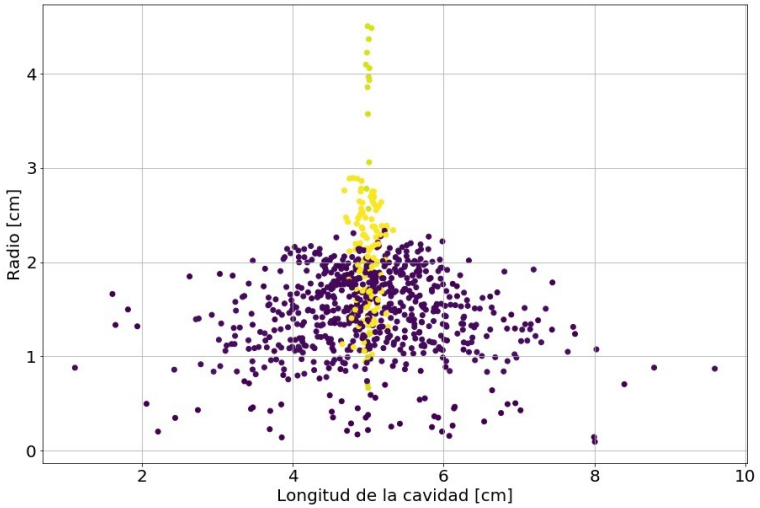


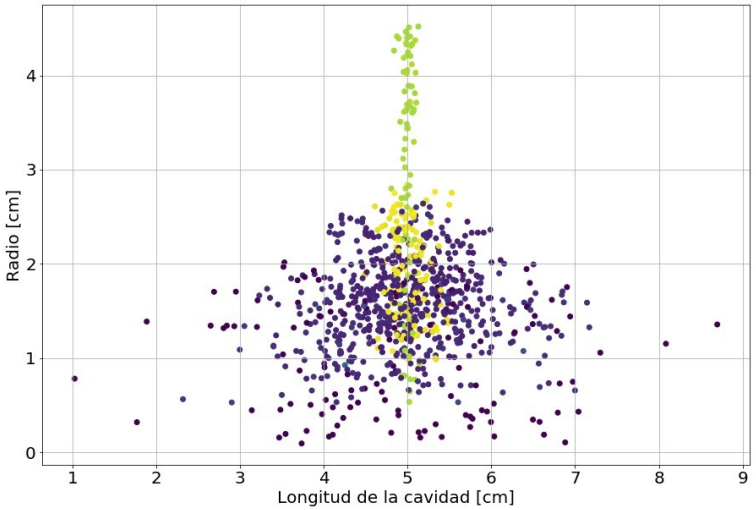
Electrones en diferentes instantes de tiempo

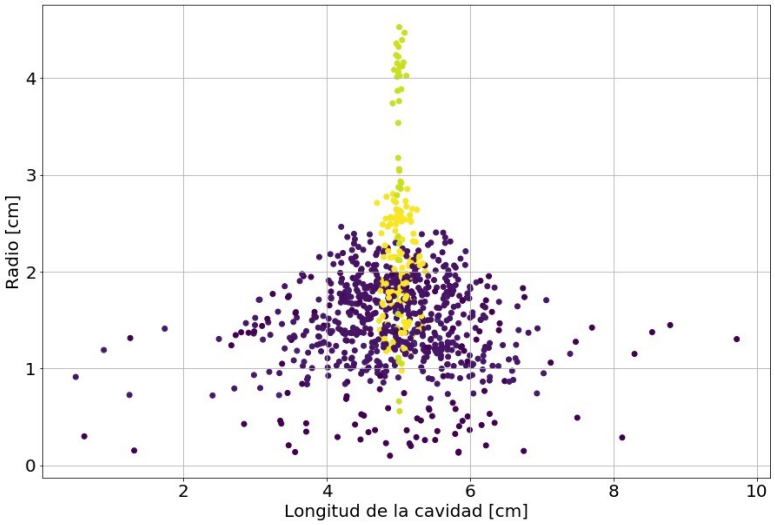




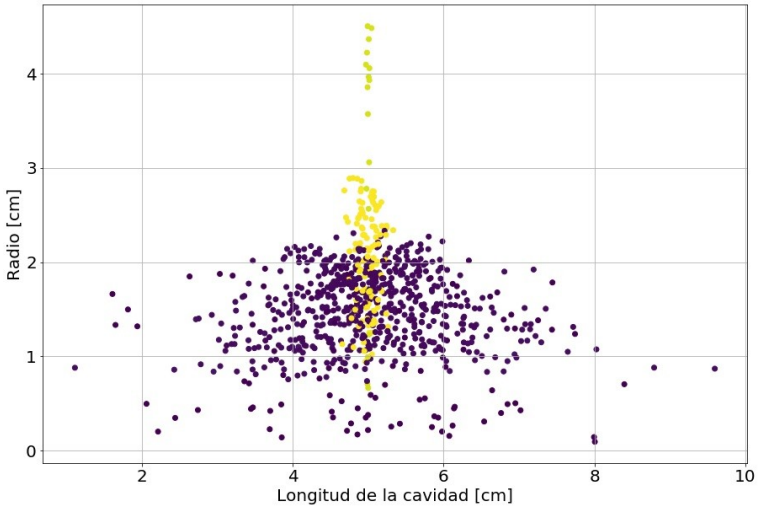
Electrones en diferentes instantes de tiempo

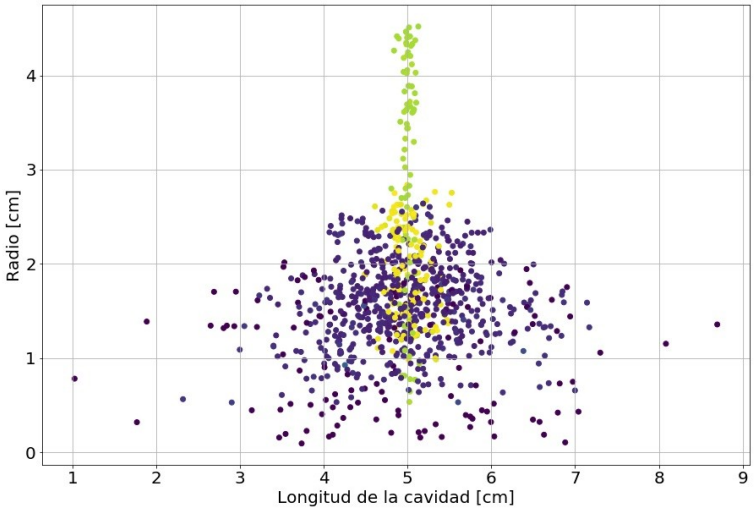


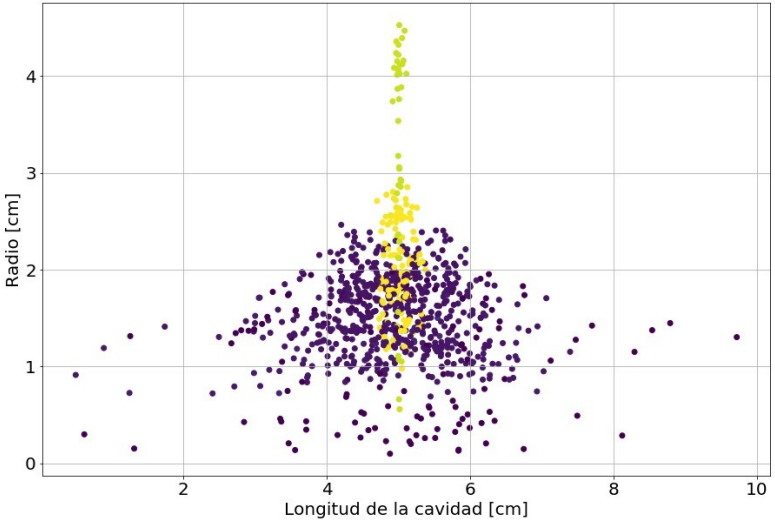


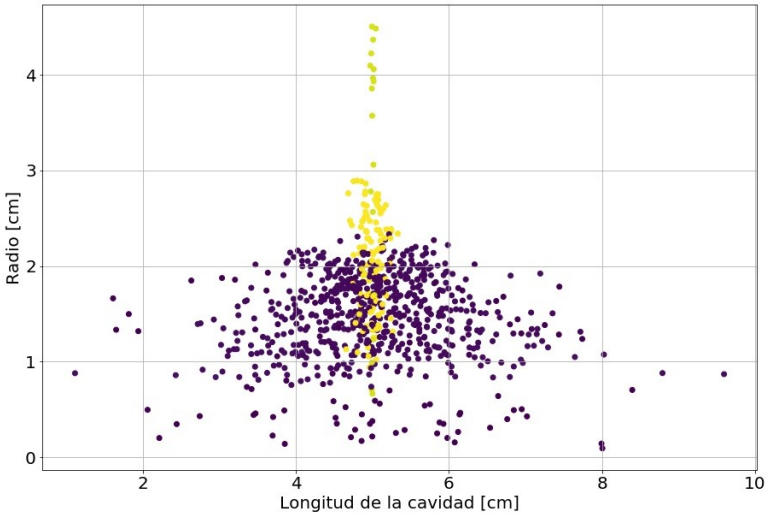


Electrones en diferentes instantes de tiempo







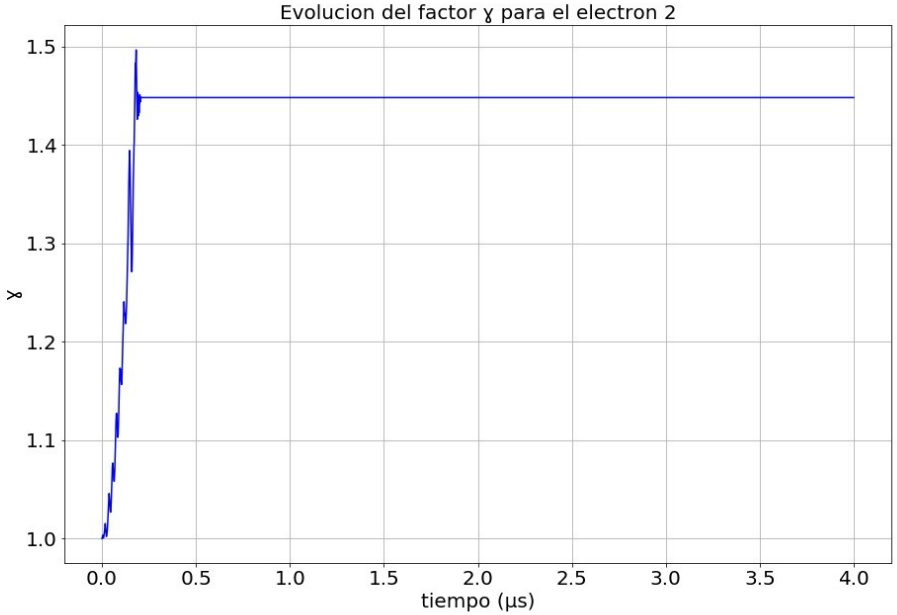


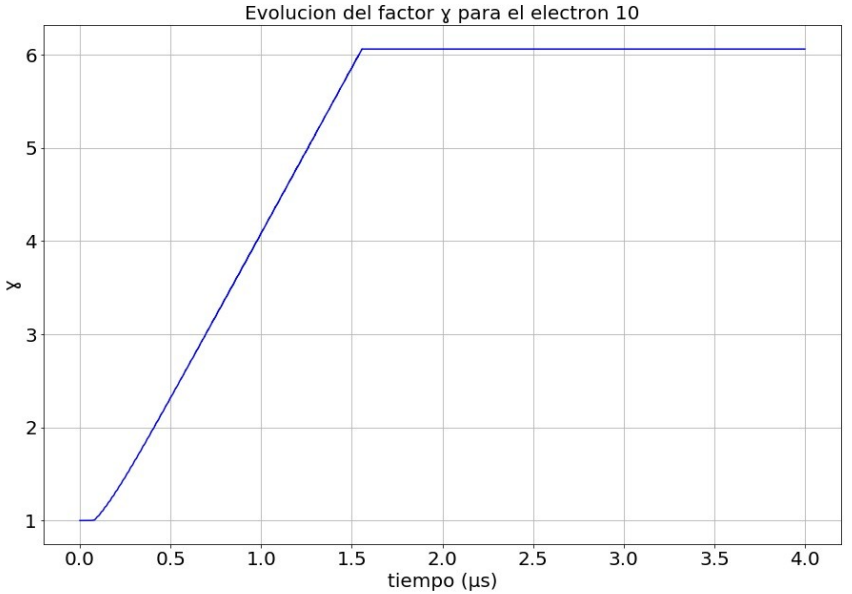
Resultados de interés

```
files = !ls *1.txt
ele = ([pd.read_csv(f, sep=" ", names=['tiempo','Posicion x','Posicion y','Posicion z', 'gamma']) for f in files])
ele[0]
```

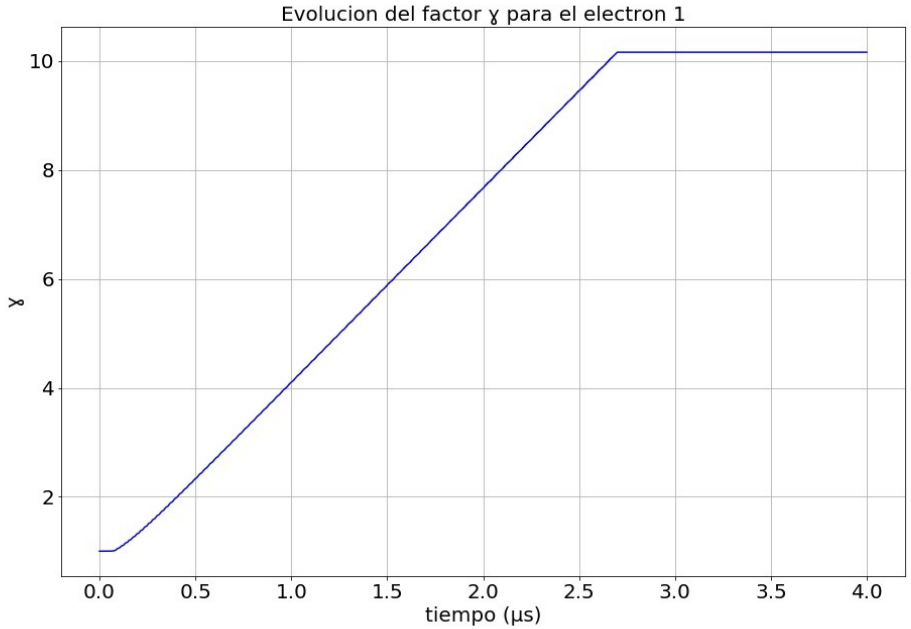
	tiempo	Posicion x	Posicion y	Posicion z	gamma
0	0.000000	0.724825	0.745812	5.877120	1.000005
1	0.000003	0.724842	0.745766	5.876973	1.000005
2	0.000007	0.724865	0.745720	5.876825	1.000005
3	0.000010	0.724893	0.745675	5.876678	1.000005
4	0.000014	0.724927	0.745631	5.876531	1.000005
5	0.000017	0.724967	0.745588	5.876384	1.000005
6	0.000021	0.725013	0.745547	5.876238	1.000005
7	0.000024	0.725065	0.745507	5.876091	1.000005
8	0.000028	0.725122	0.745470	5.875945	1.000005
9	0.000031	0.725184	0.745434	5.875799	1.000006
10	0.000034	0.725252	0.745401	5.875653	1.000006
11	0.000038	0.725325	0.745371	5.875508	1.000006
12	0.000041	0.725404	0.745344	5.875363	1.000006
13	0.000045	0.725488	0.745320	5.875218	1.000006
14	0.000048	0.725577	0.745299	5.875073	1.000006
15	0.000052	0.725670	0.745282	5.874929	1.000006
16	0.000055	0.725769	0.745269	5.874785	1.000006
17	0.000058	0.725872	0.745260	5.874641	1.000007

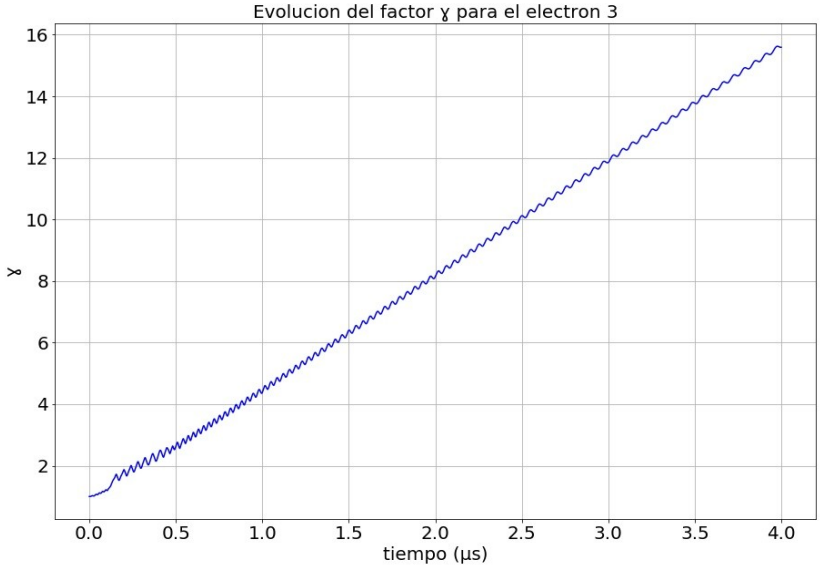
Resultados de interés



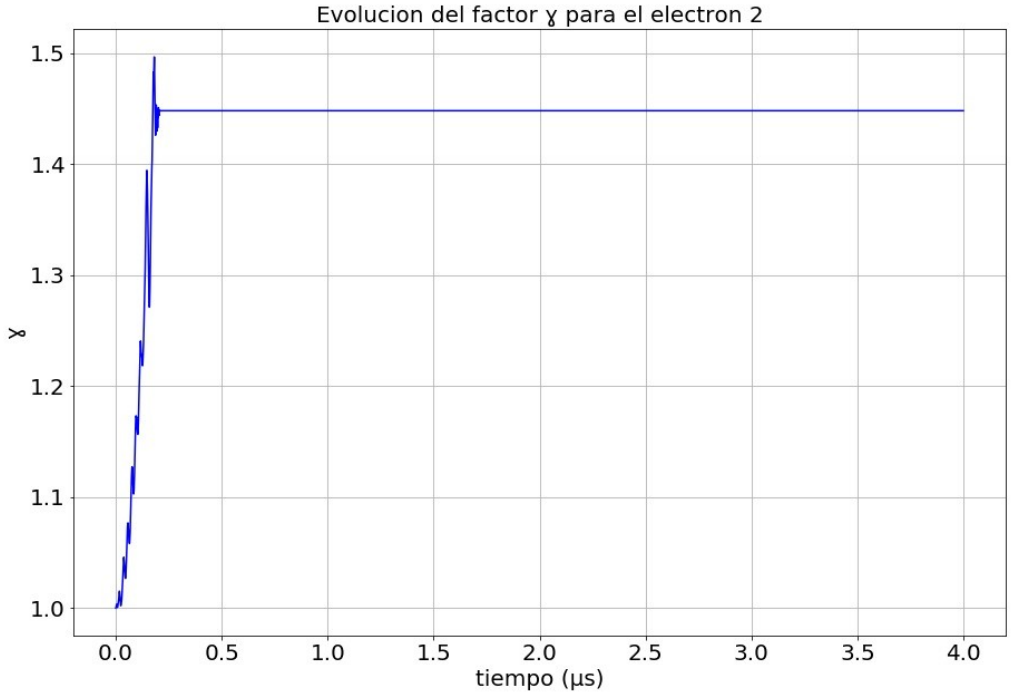


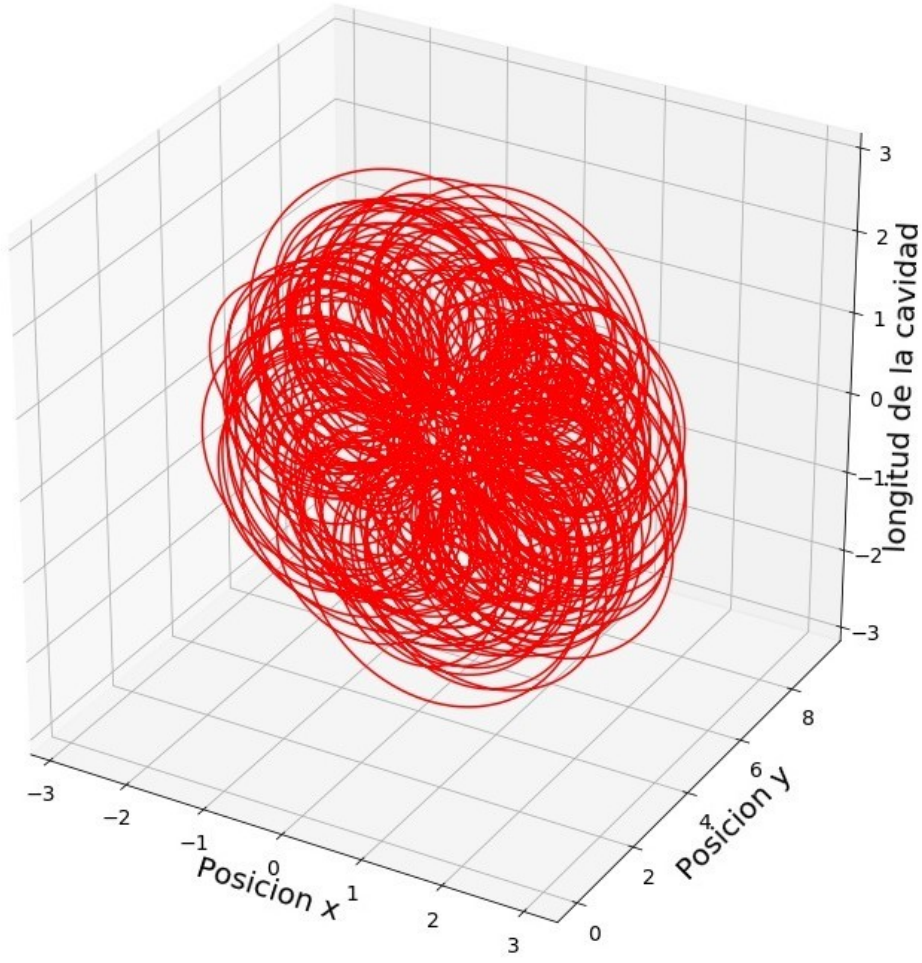
Resultados de interés



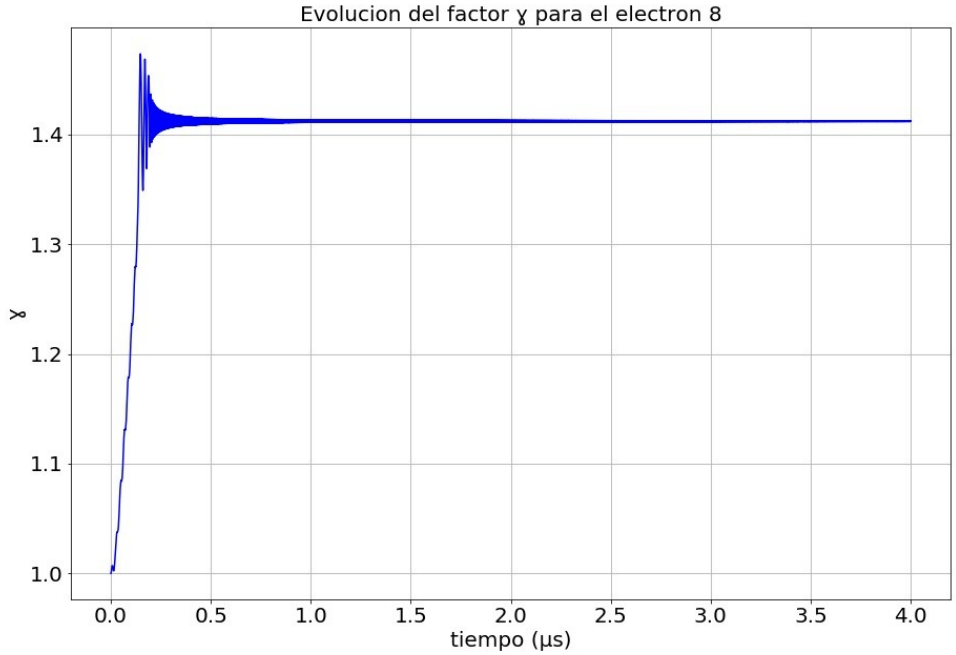


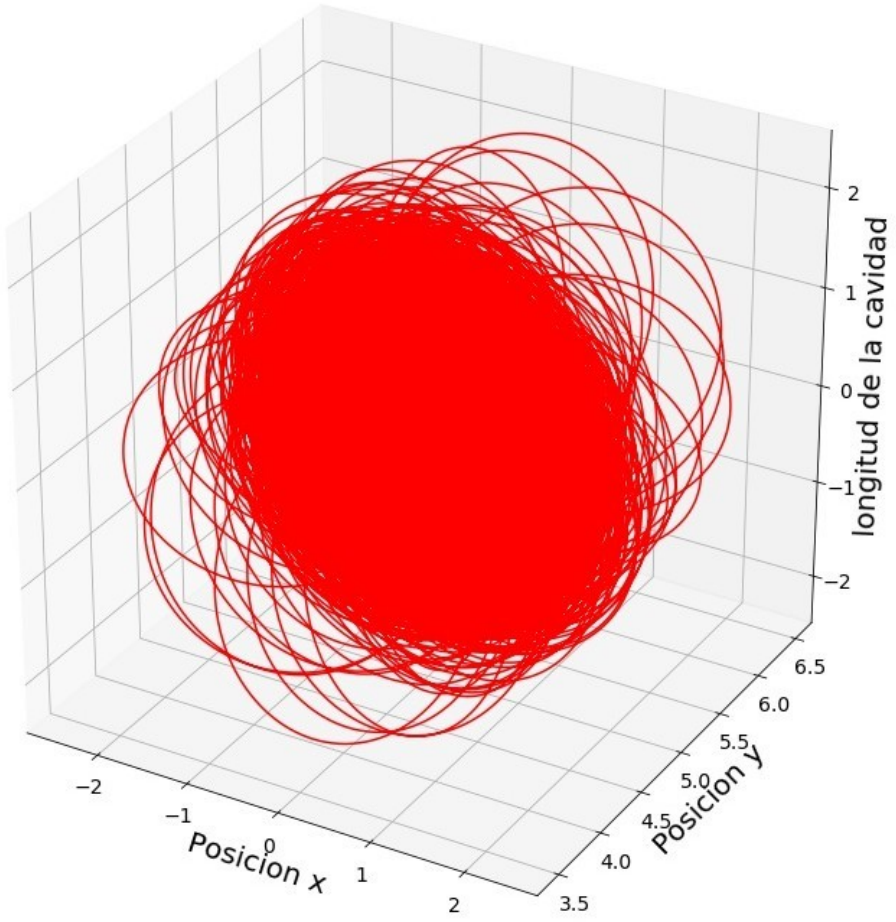
Resultados de interés



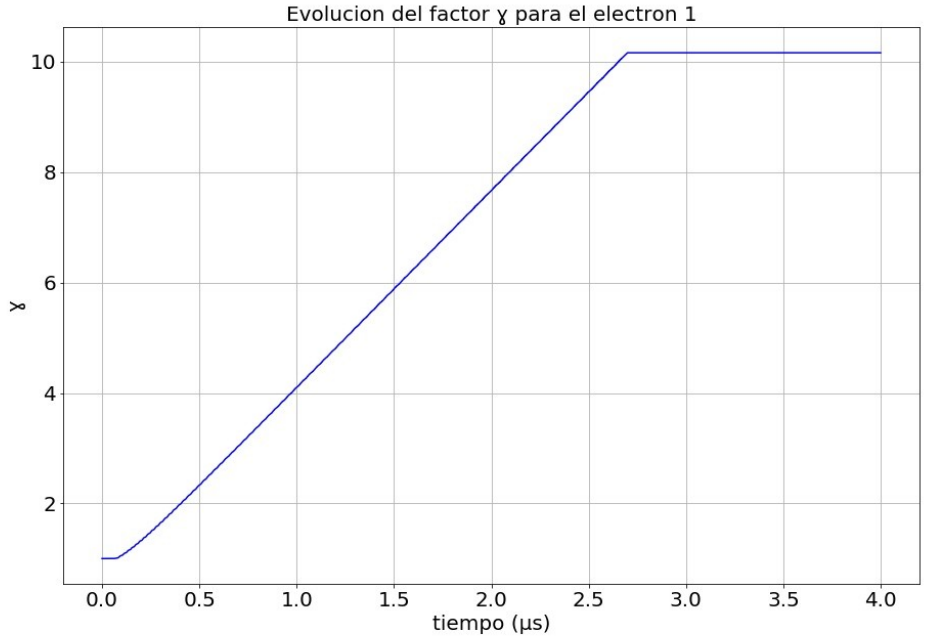


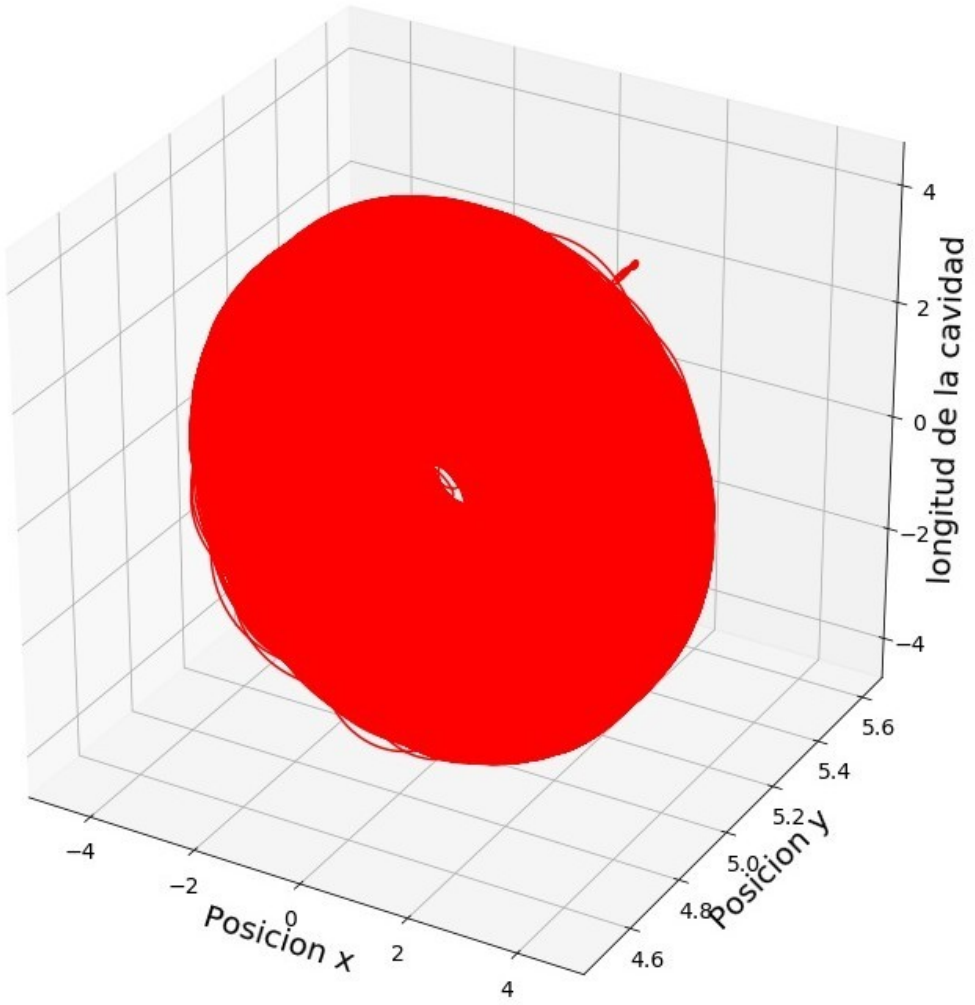
Resultados de interés



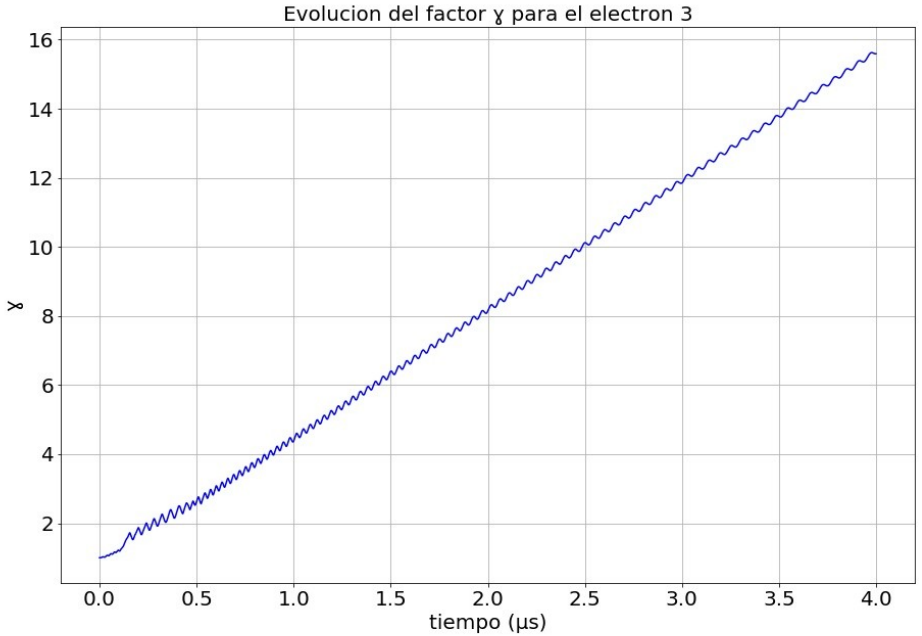


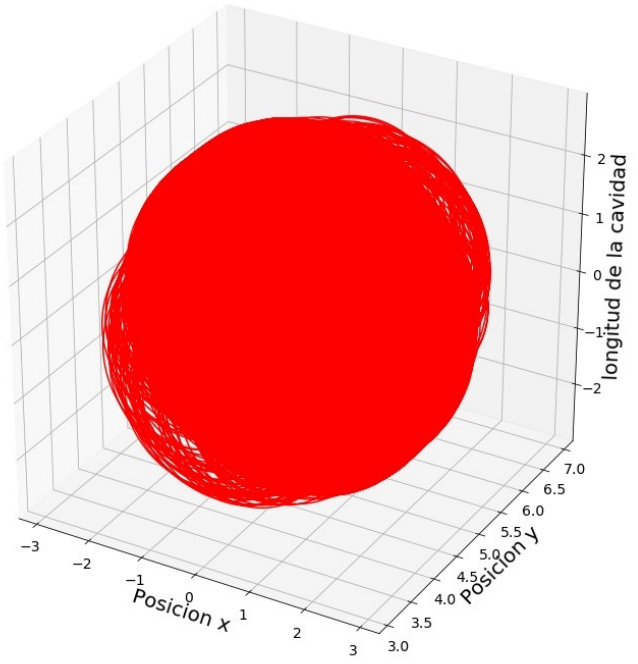
Resultados de interés





Resultados de interés





Resultados de interés