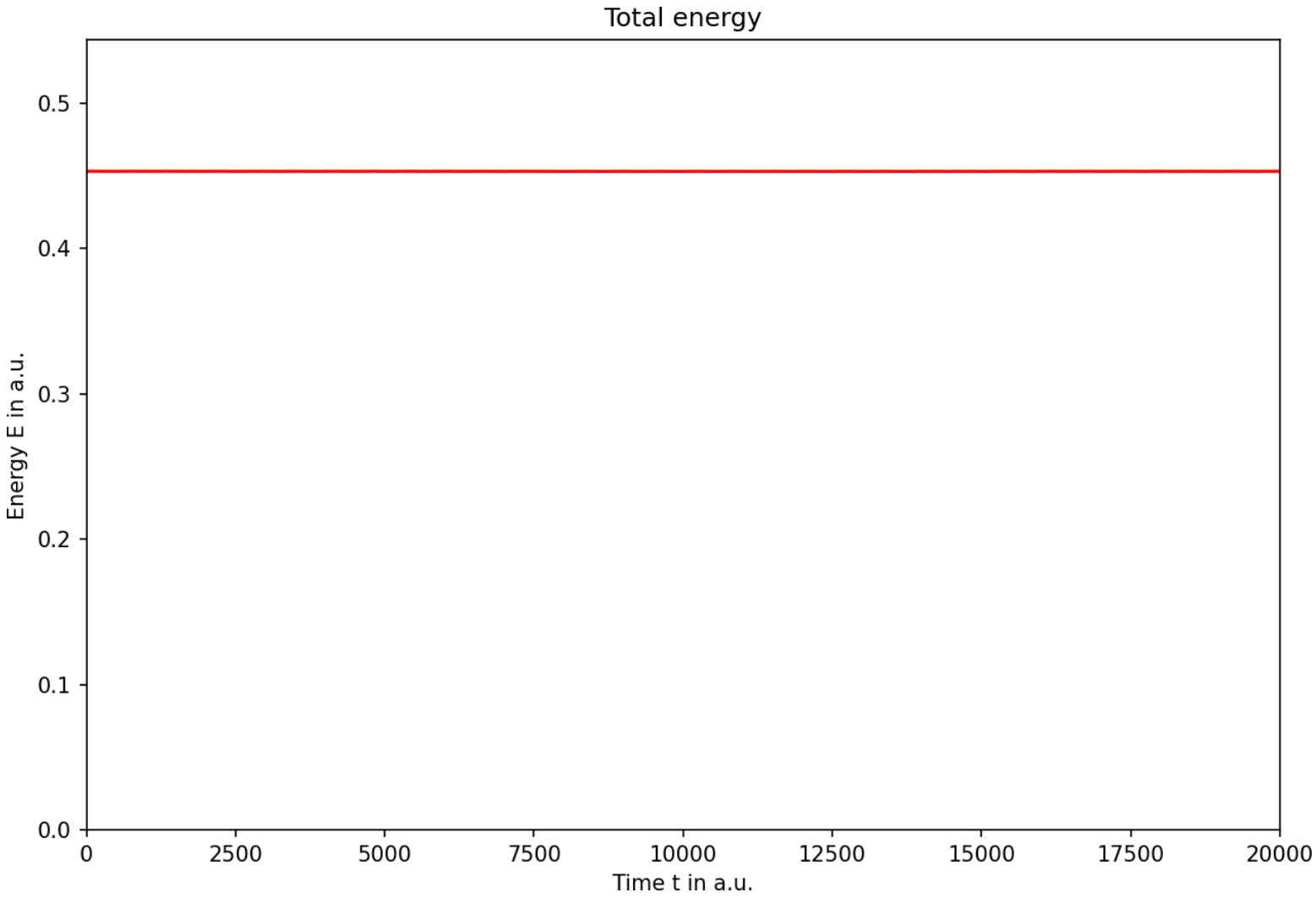
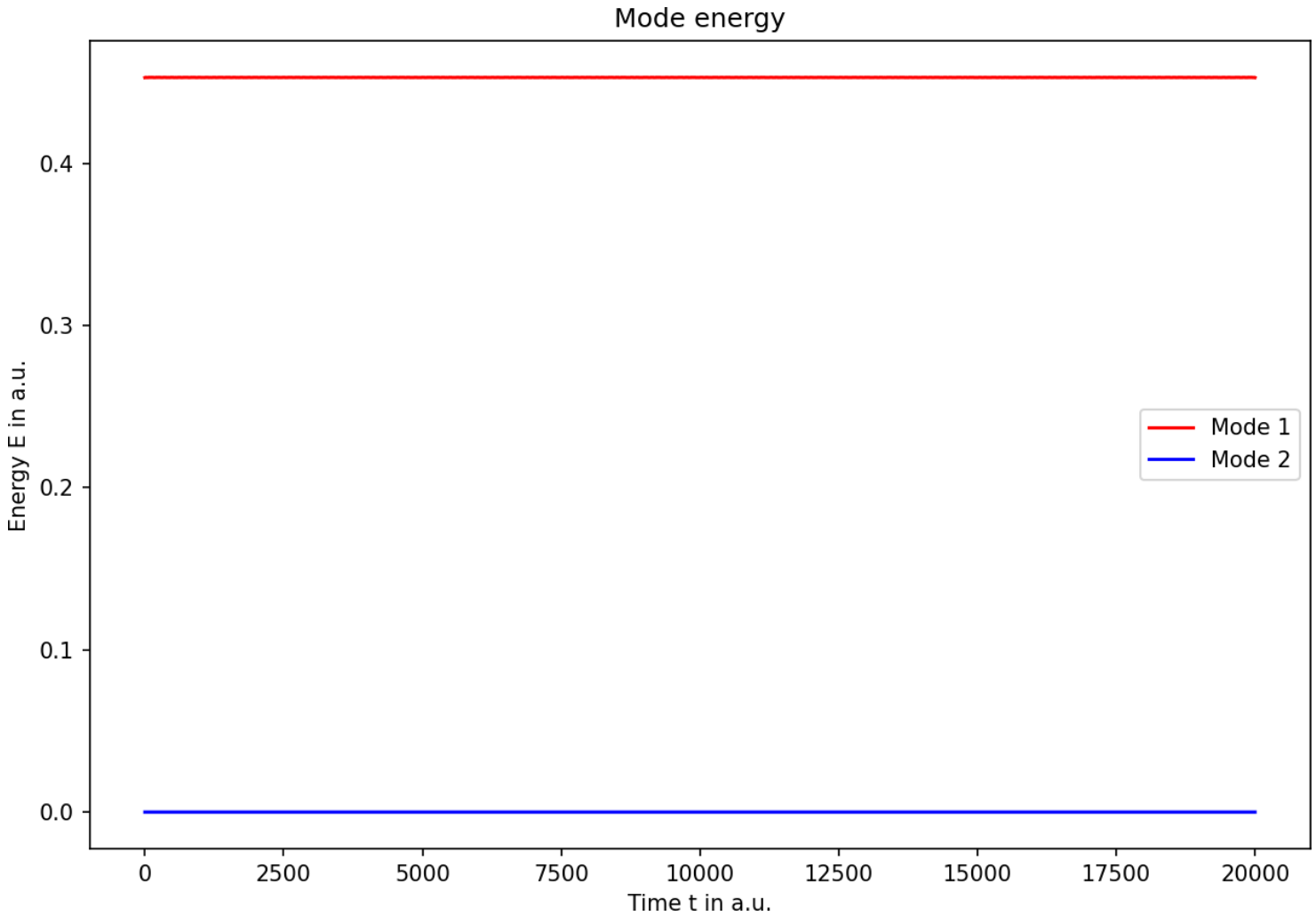
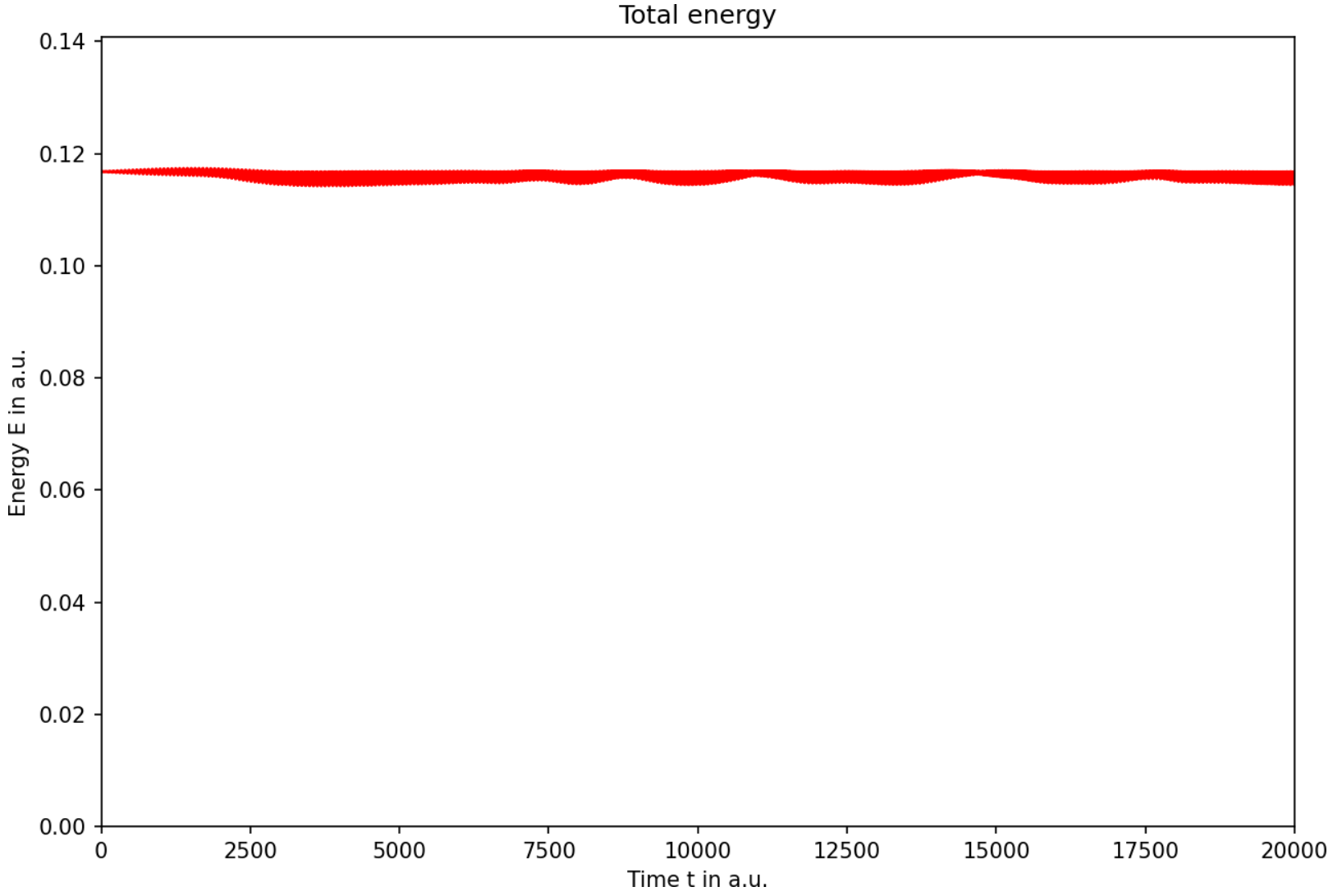
$$\alpha = 0, \beta = 0$$



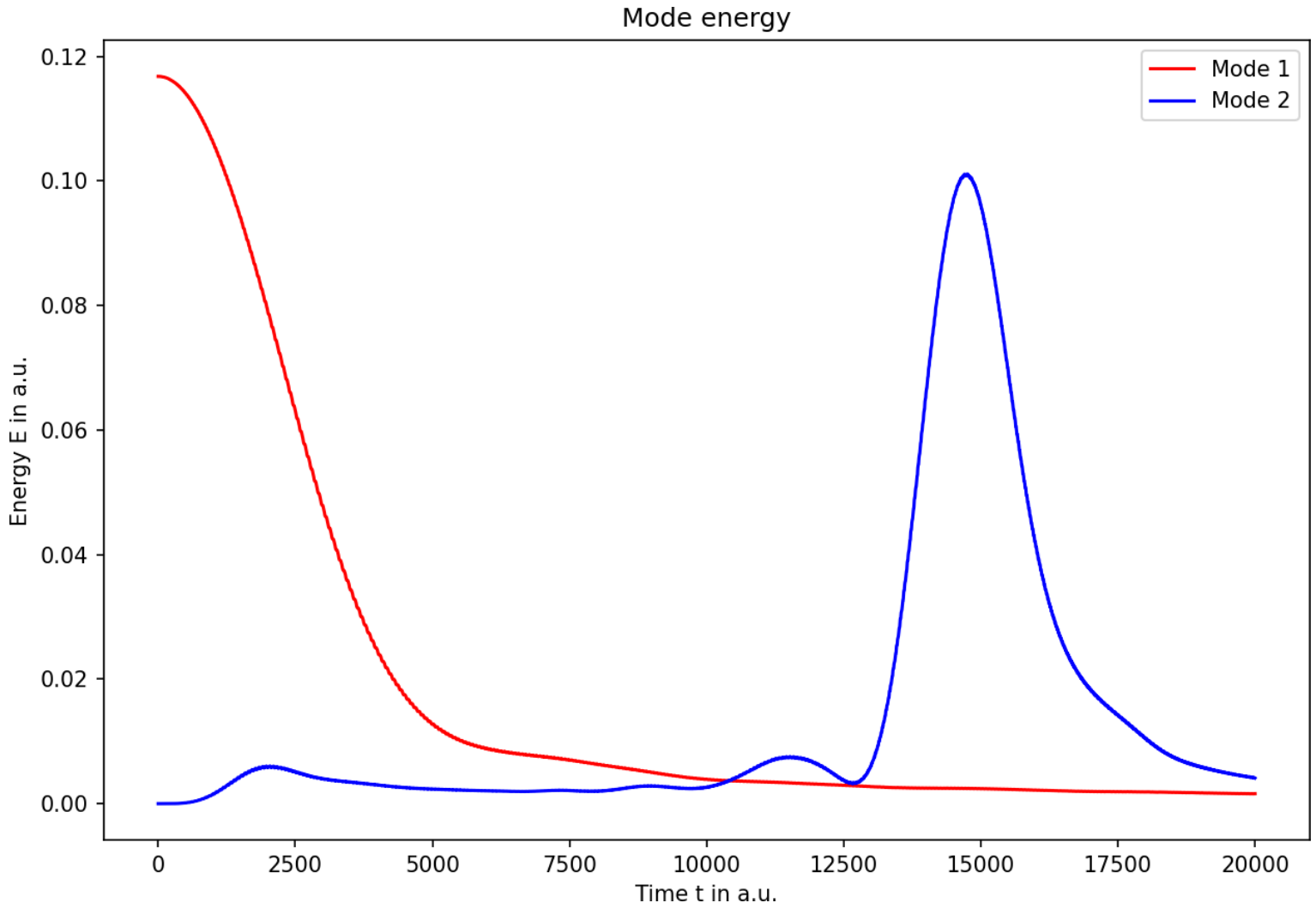
$$\alpha = 0, \beta = 0$$



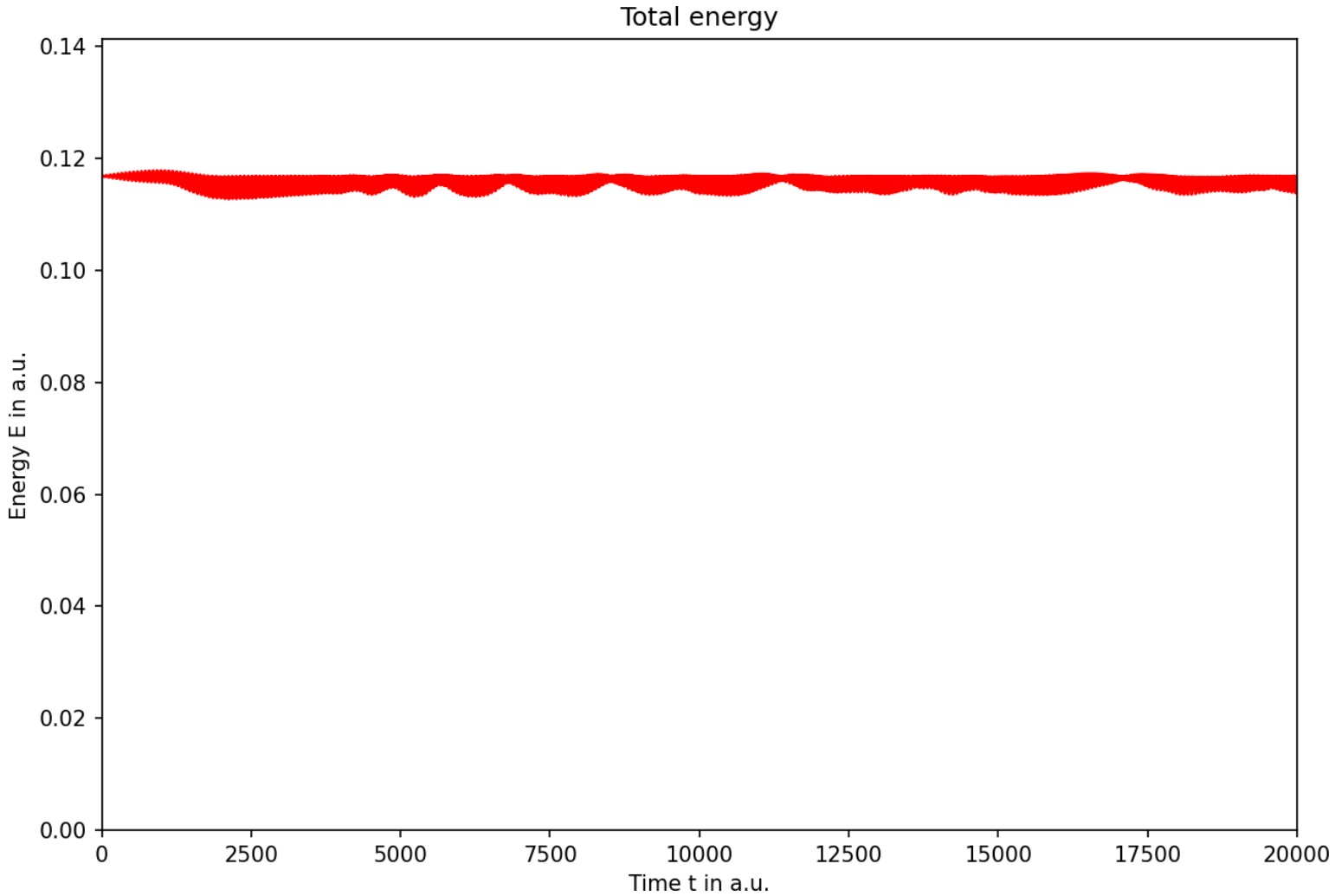
$$\alpha = 0.3$$


Total energy
Energy E in a.u.
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
0
2500
5000
7500
10000
12500
15000
17500
20000
Time t in a.u.

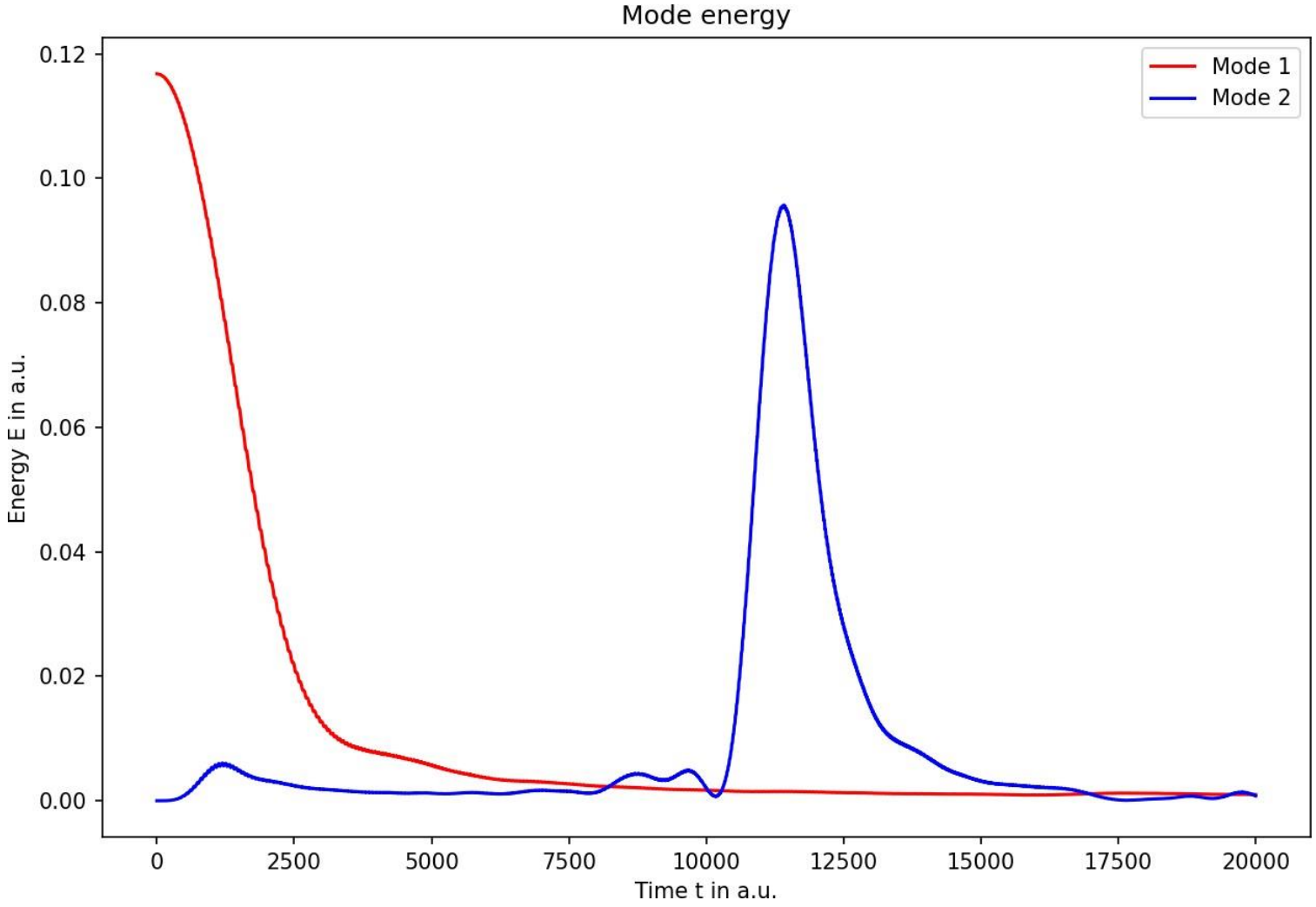
$\alpha = 0.3$


Mode energy
Mode 1
Mode 2
Energy E in a.u.
0.12
0.10
0.08
0.06
0.04
0.02
0.00
0
2500
5000
7500
10000
12500
15000
17500
20000
Time t in a.u.

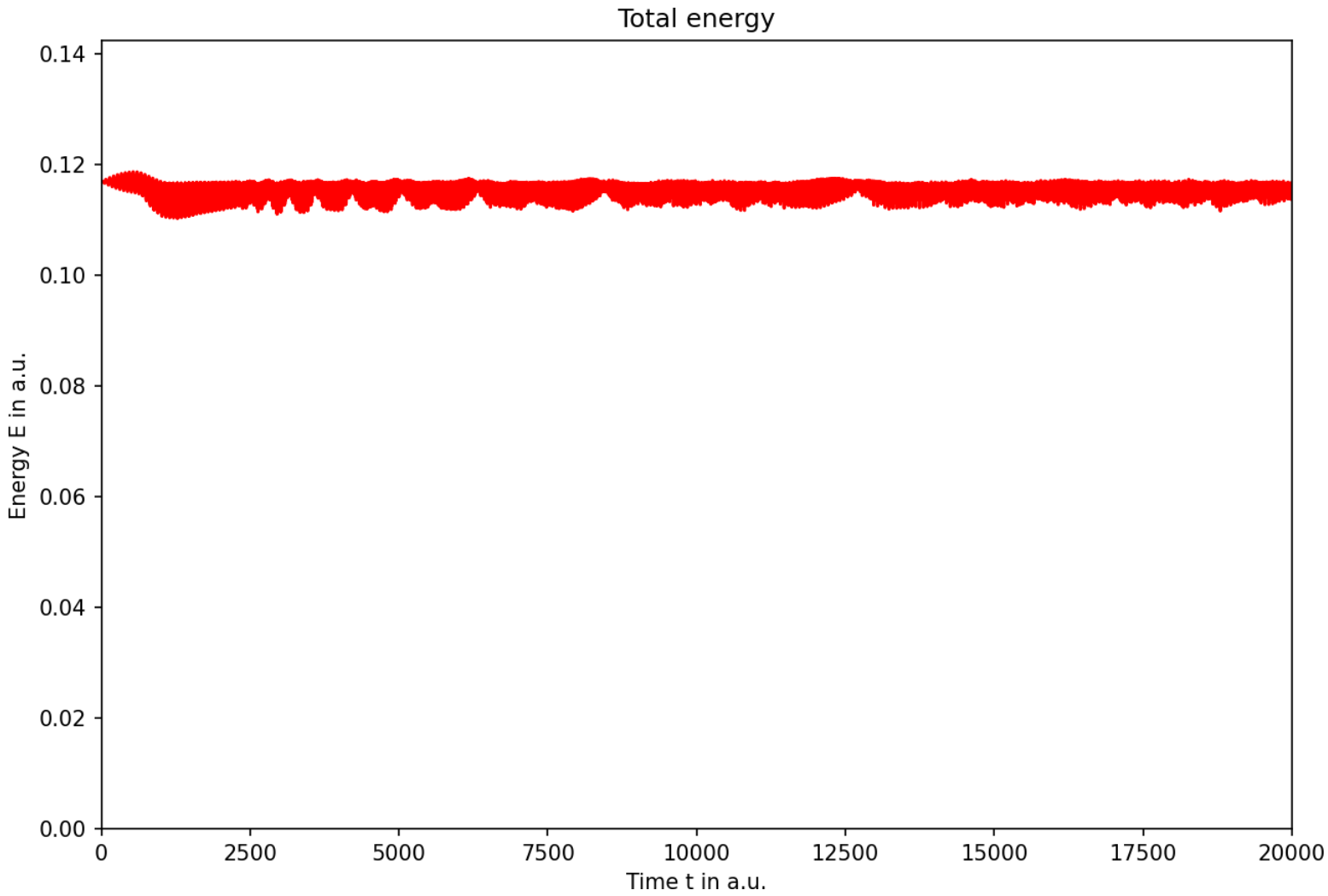
$\alpha = 0.5$


Total energy
Energy E in a.u.
Time t in a.u.
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
0
2500
5000
7500
10000
12500
15000
17500
20000

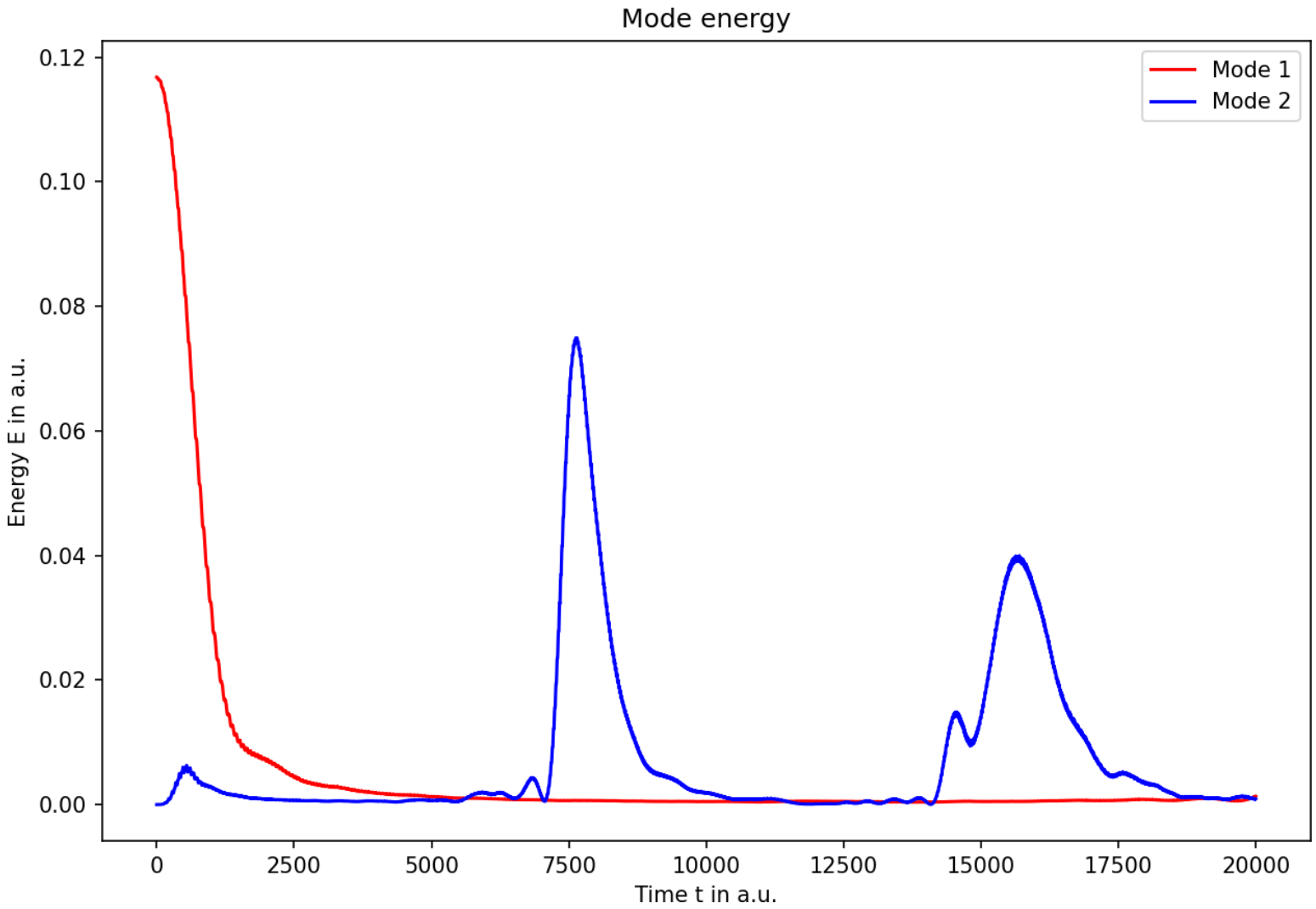
$\alpha = 0.5$


Mode energy
Mode 1
Mode 2
Energy E in a.u.
0.12
0.10
0.08
0.06
0.04
0.02
0.00
0
2500
5000
7500
10000
12500
15000
17500
20000
Time t in a.u.

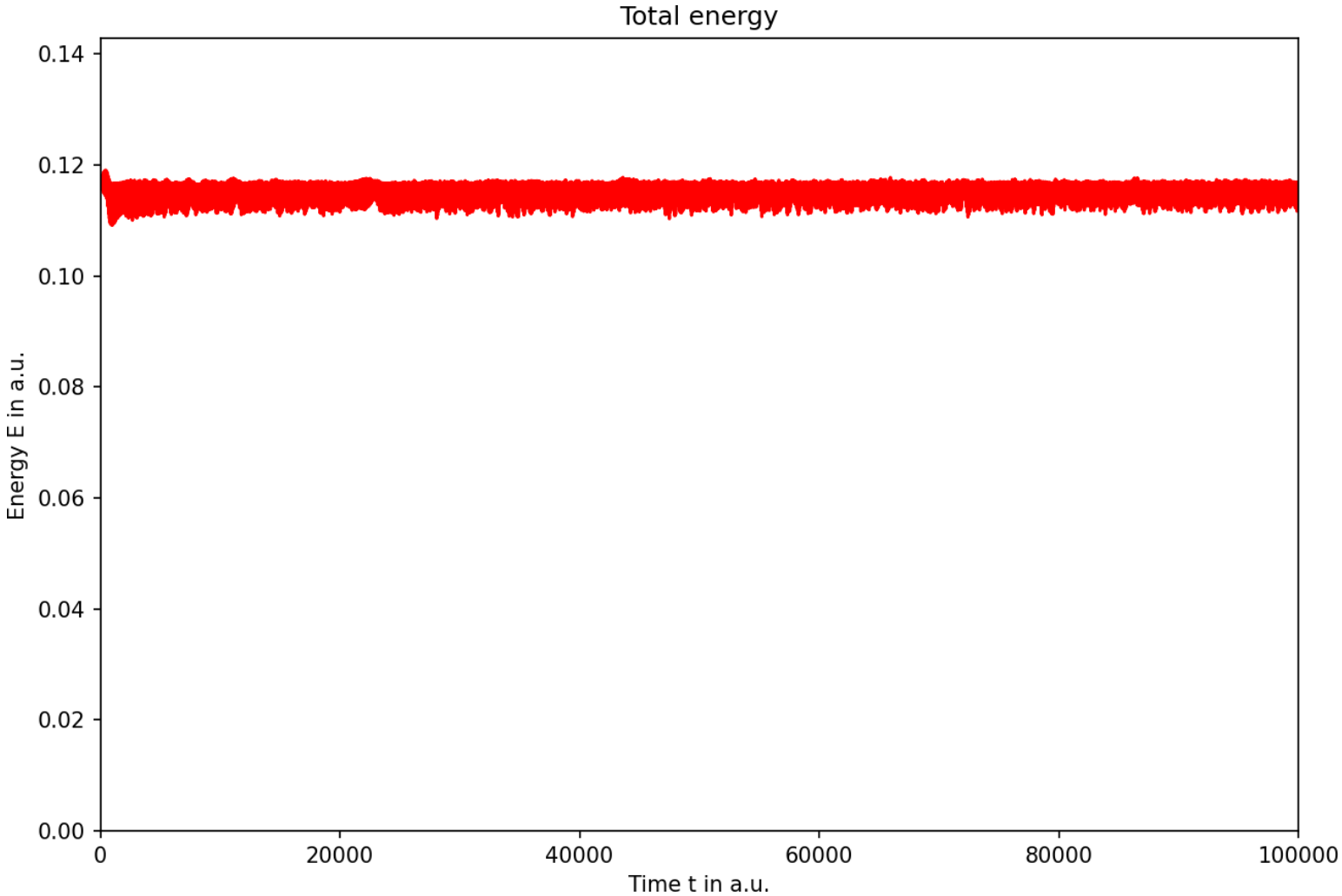
$\alpha = 0.9$


Total energy
Energy E in a.u.
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
0
2500
5000
7500
10000
12500
15000
17500
20000
Time t in a.u.

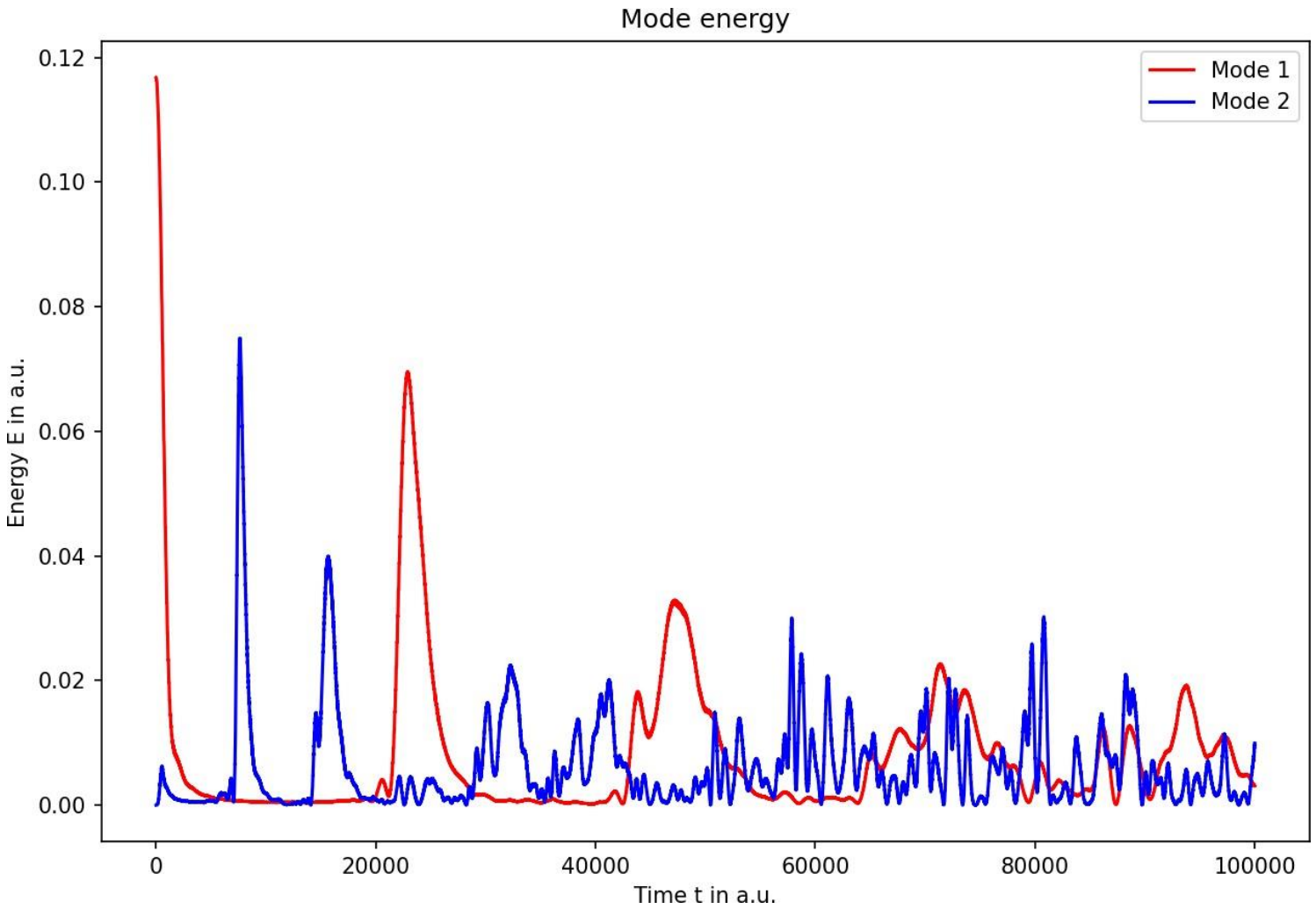
$\alpha = 0.9$


Mode energy
Mode 1
Mode 2
Energy E in a.u.
0.12
0.10
0.08
0.06
0.04
0.02
0.00
0
2500
5000
7500
10000
12500
15000
17500
20000
Time t in a.u.

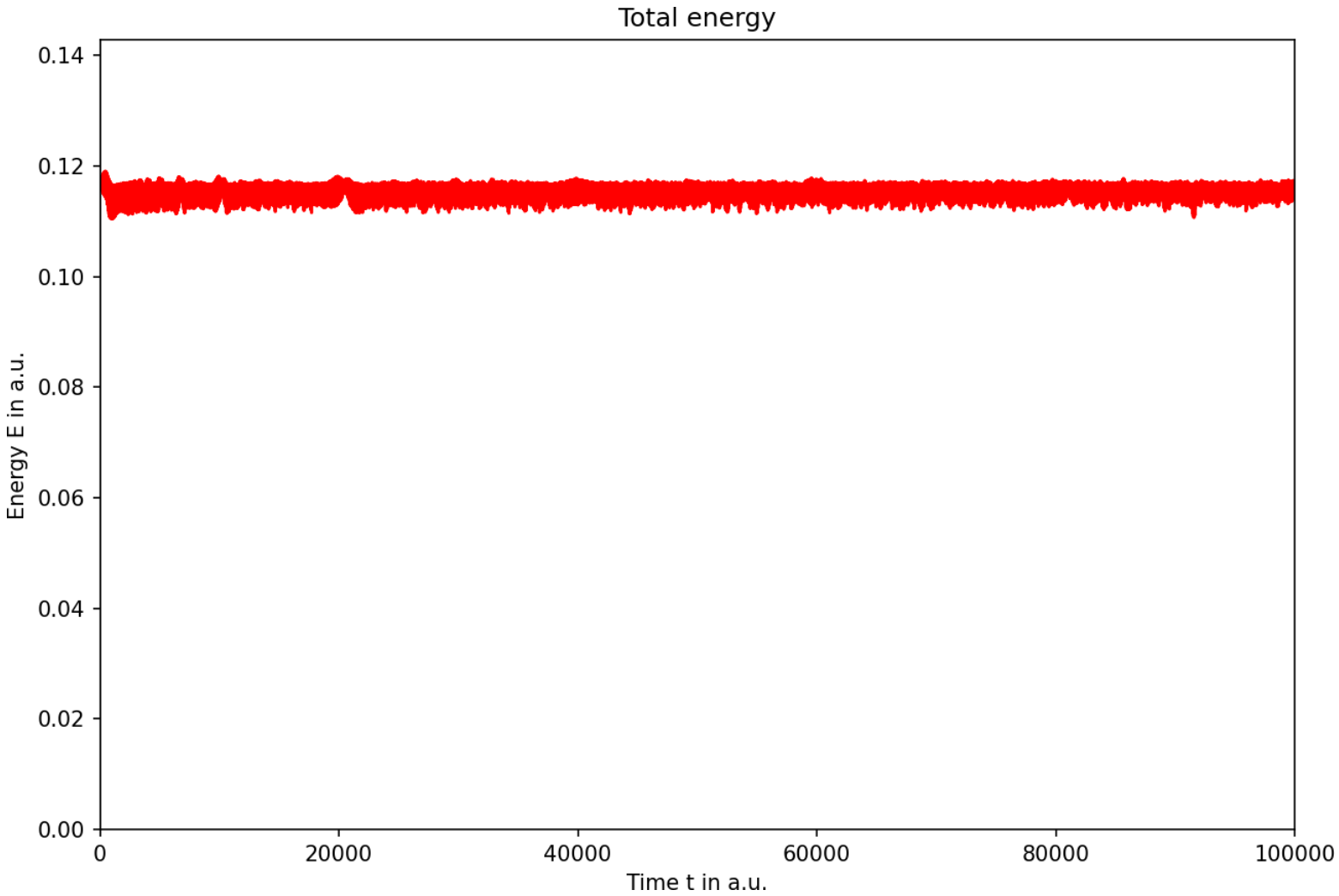
$\alpha = 1.1$


Total energy
Energy E in a.u.
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
0
20000
40000
60000
80000
100000
Time t in a.u.

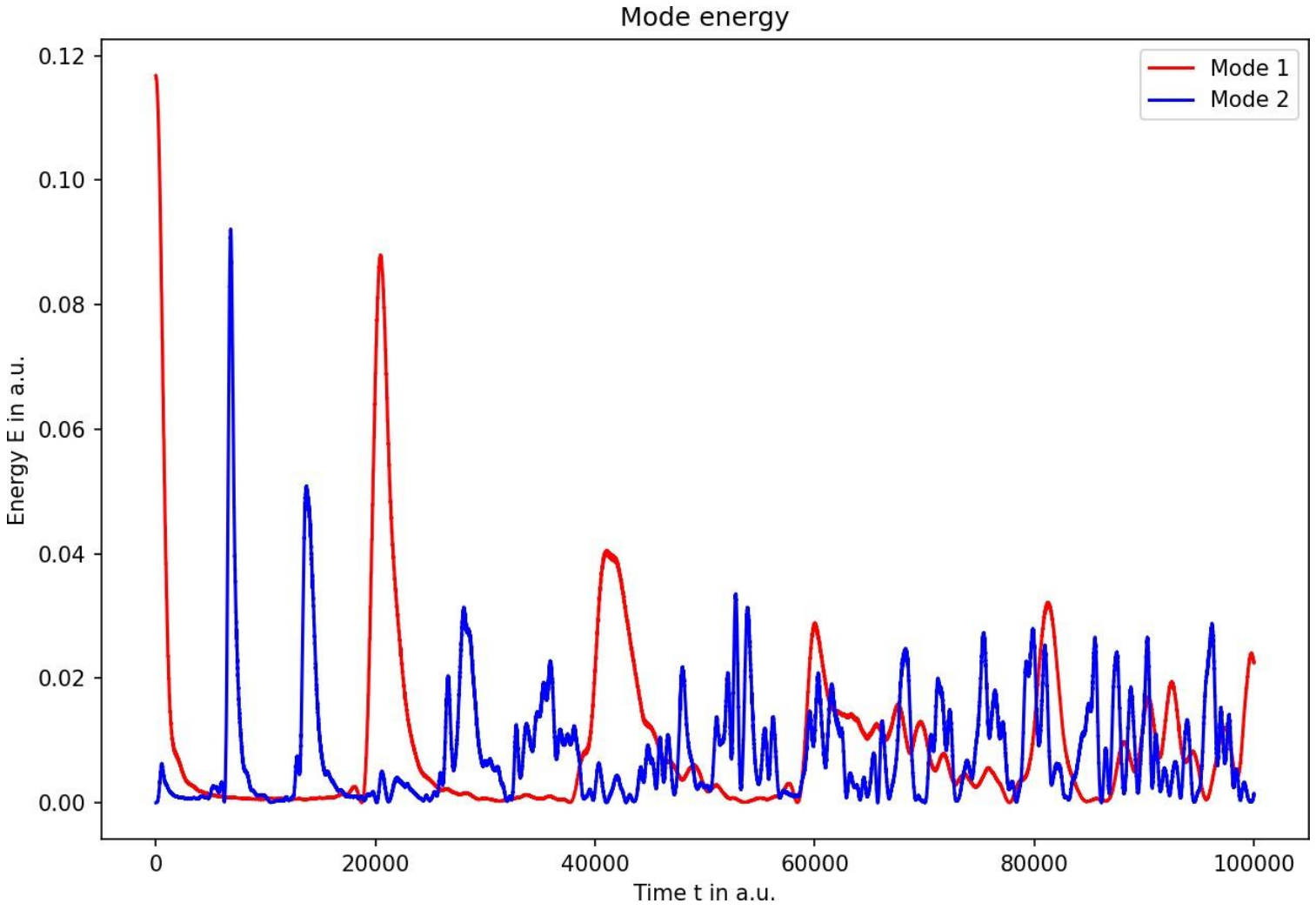
$\alpha = 1.1$


Mode energy
Mode 1
Mode 2
0.12
0.10
0.08
0.06
0.04
0.02
0.00
Energy E in a.u.
0
20000
40000
60000
80000
100000
Time t in a.u.

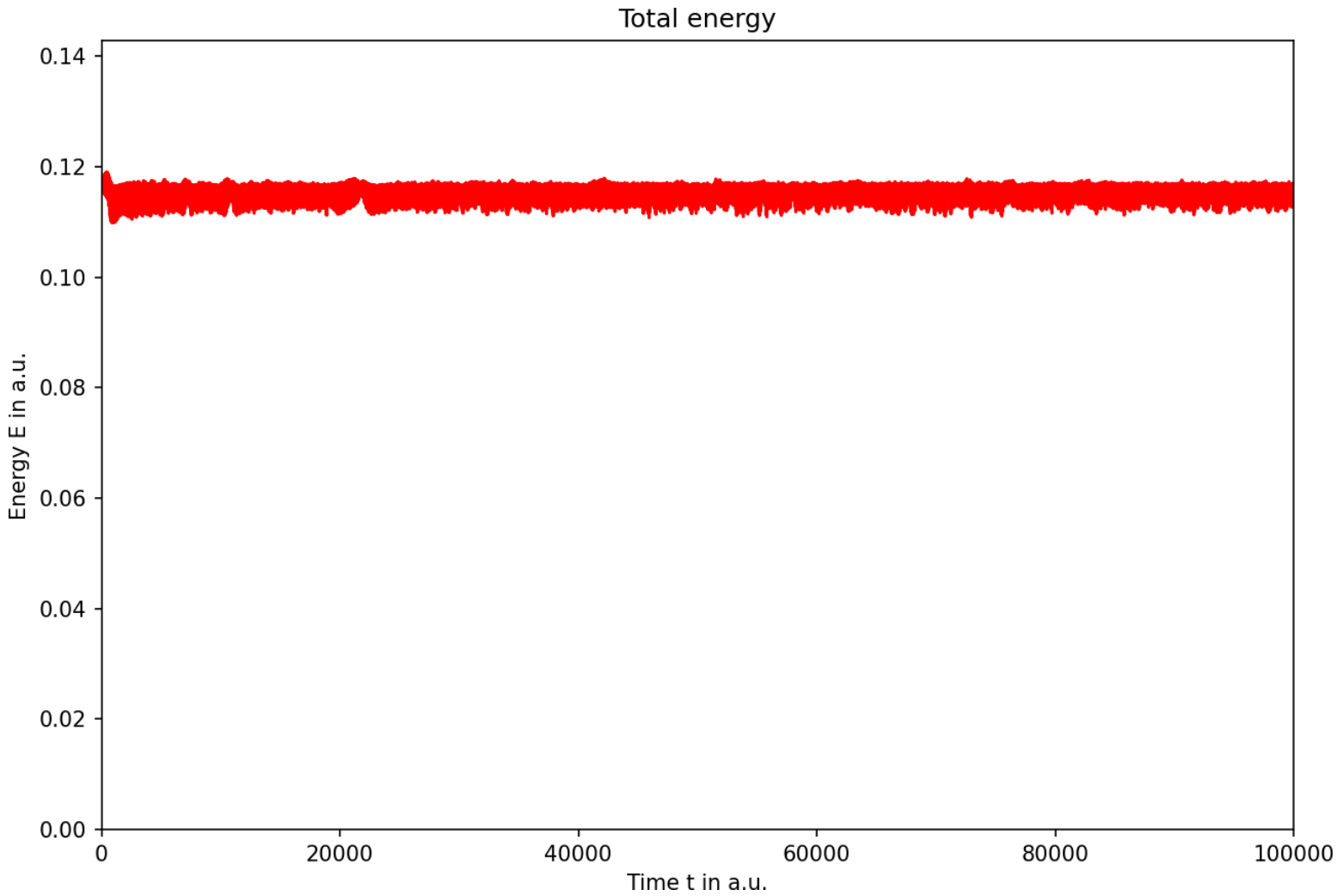
$\alpha = 1.1$


Total energy
Energy E in a.u.
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
0
20000
40000
60000
80000
100000
Time t in a.u.

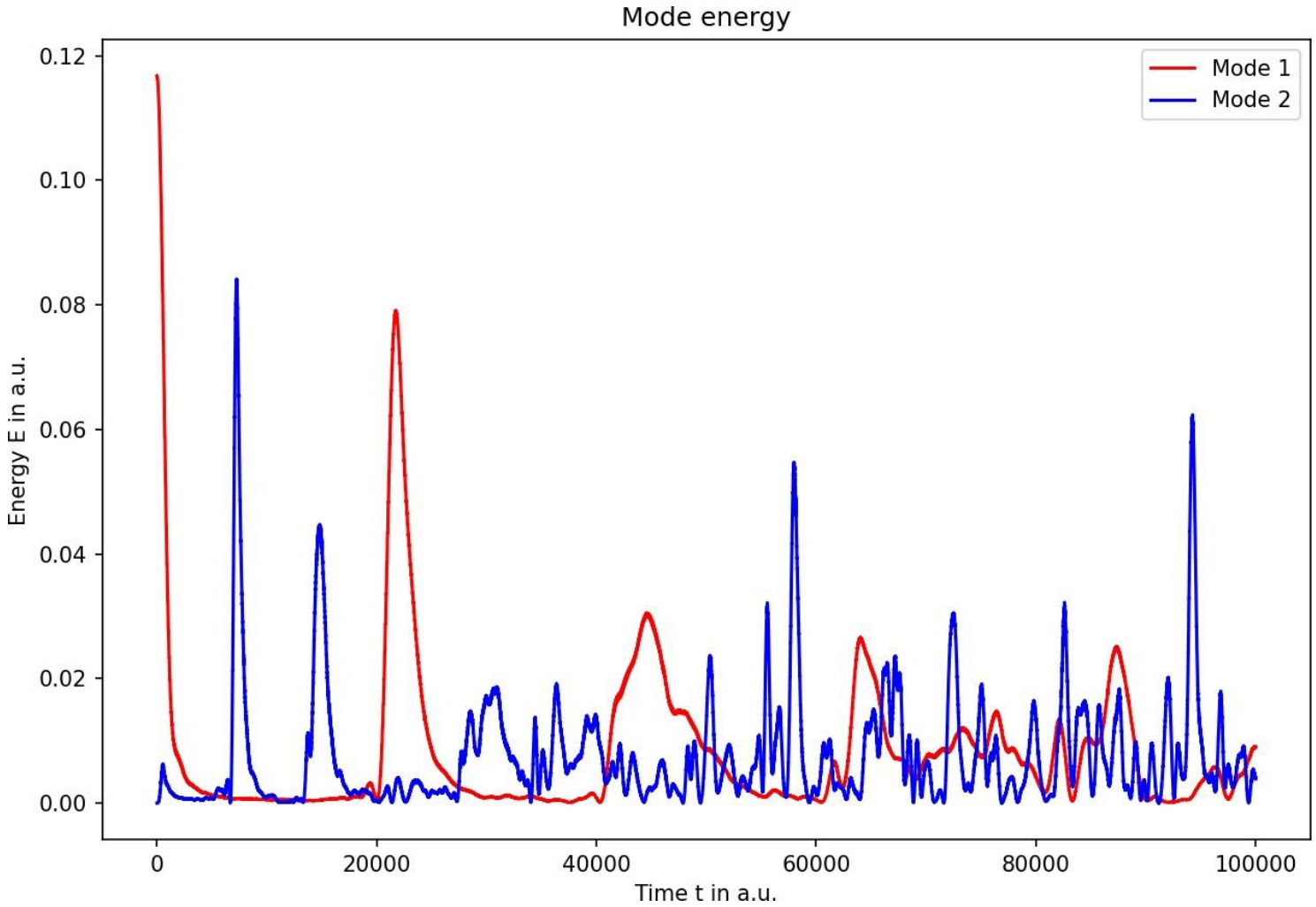
$\alpha = 1.1$


Mode energy
Mode 1
Mode 2
Energy E in a.u.
0.12
0.10
0.08
0.06
0.04
0.02
0.00
0
20000
40000
60000
80000
100000
Time t in a.u.

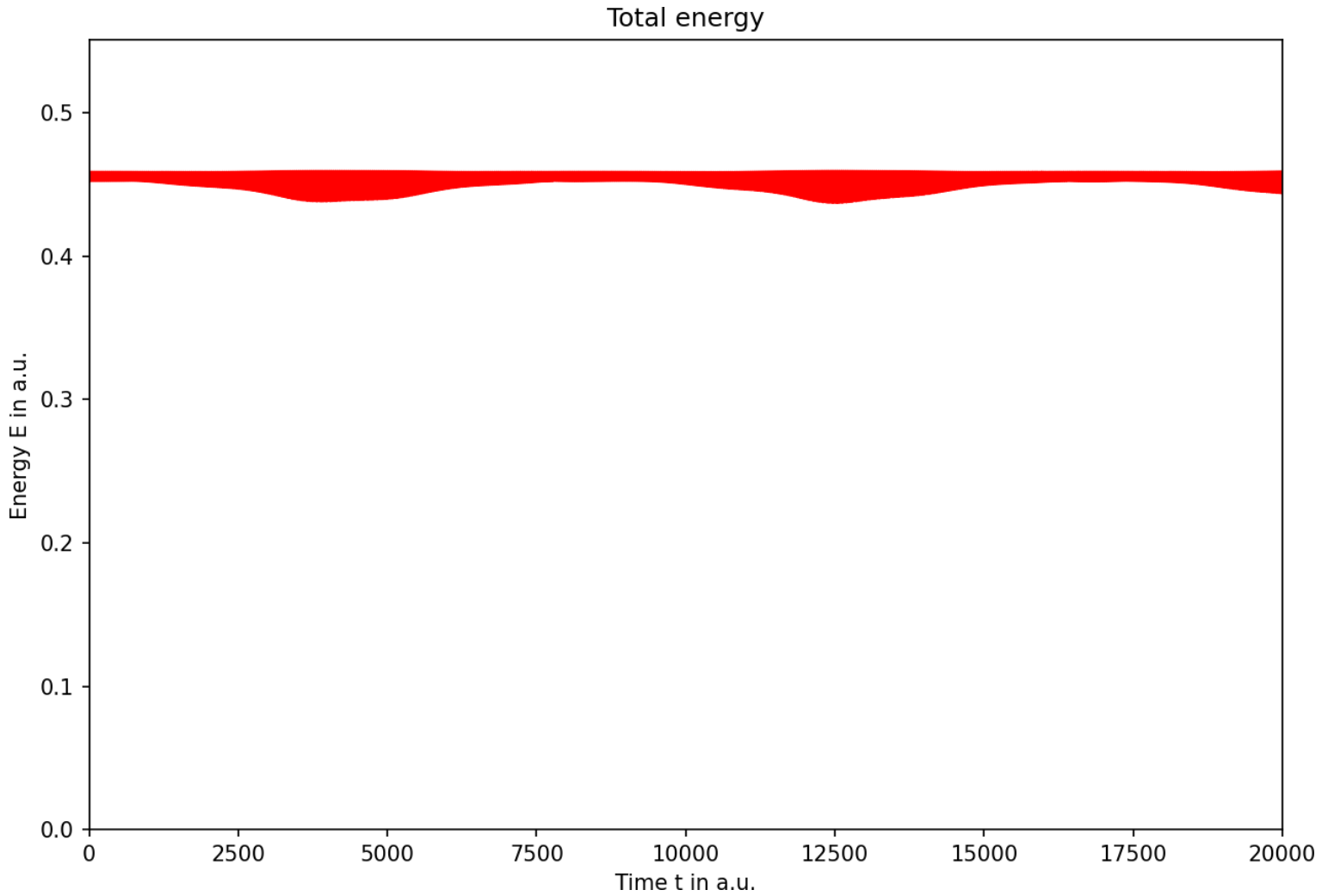
$\alpha = 1.1,\ N{=}64$


Total energy
Energy E in a.u.
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
0
20000
40000
60000
80000
100000
Time t in a.u.

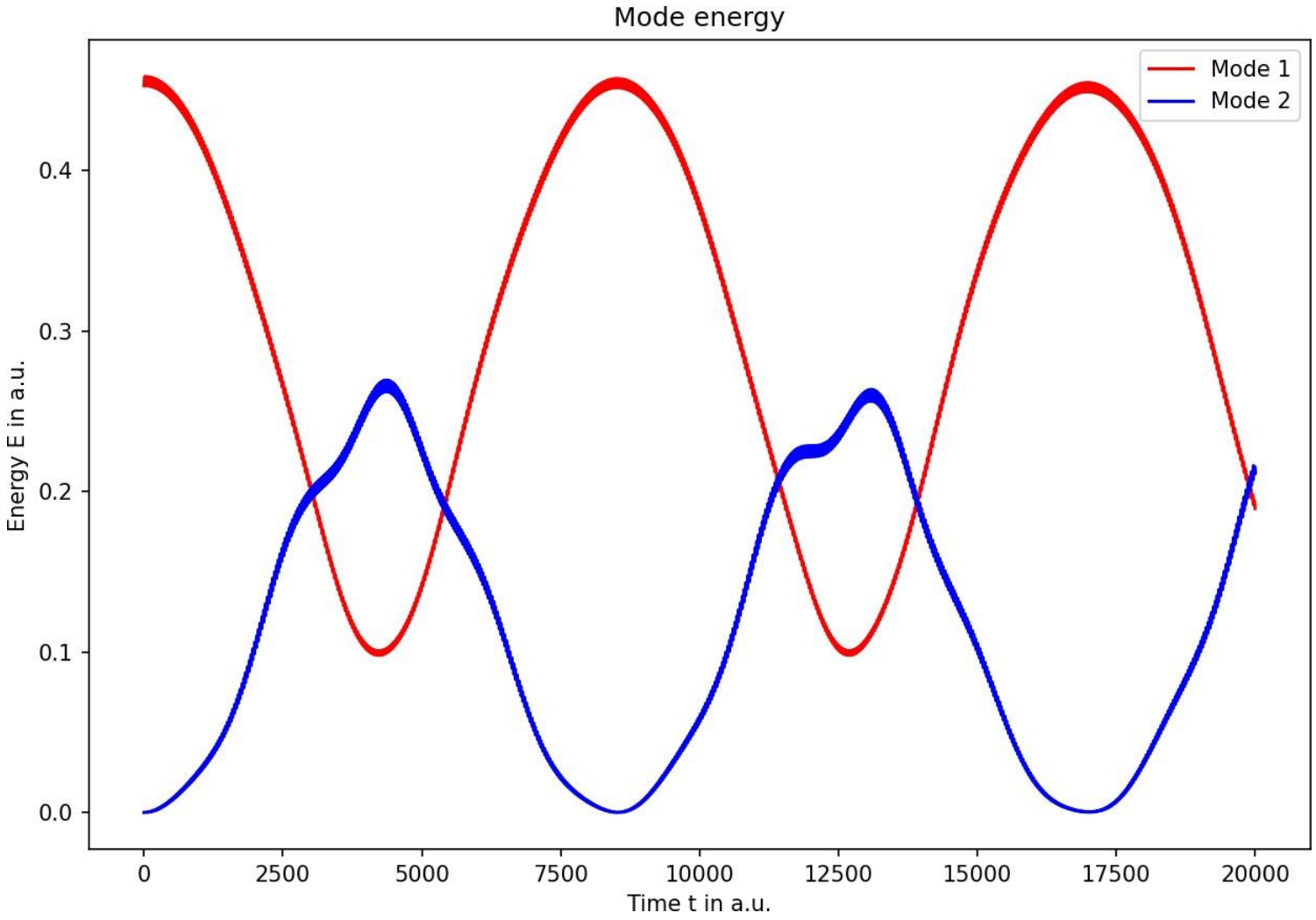
$\alpha = 1.1,\ N{=}64$


Mode energy
Mode 1
Mode 2
Energy E in a.u.
0.12
0.10
0.08
0.06
0.04
0.02
0.00
0
20000
40000
60000
80000
100000
Time t in a.u.

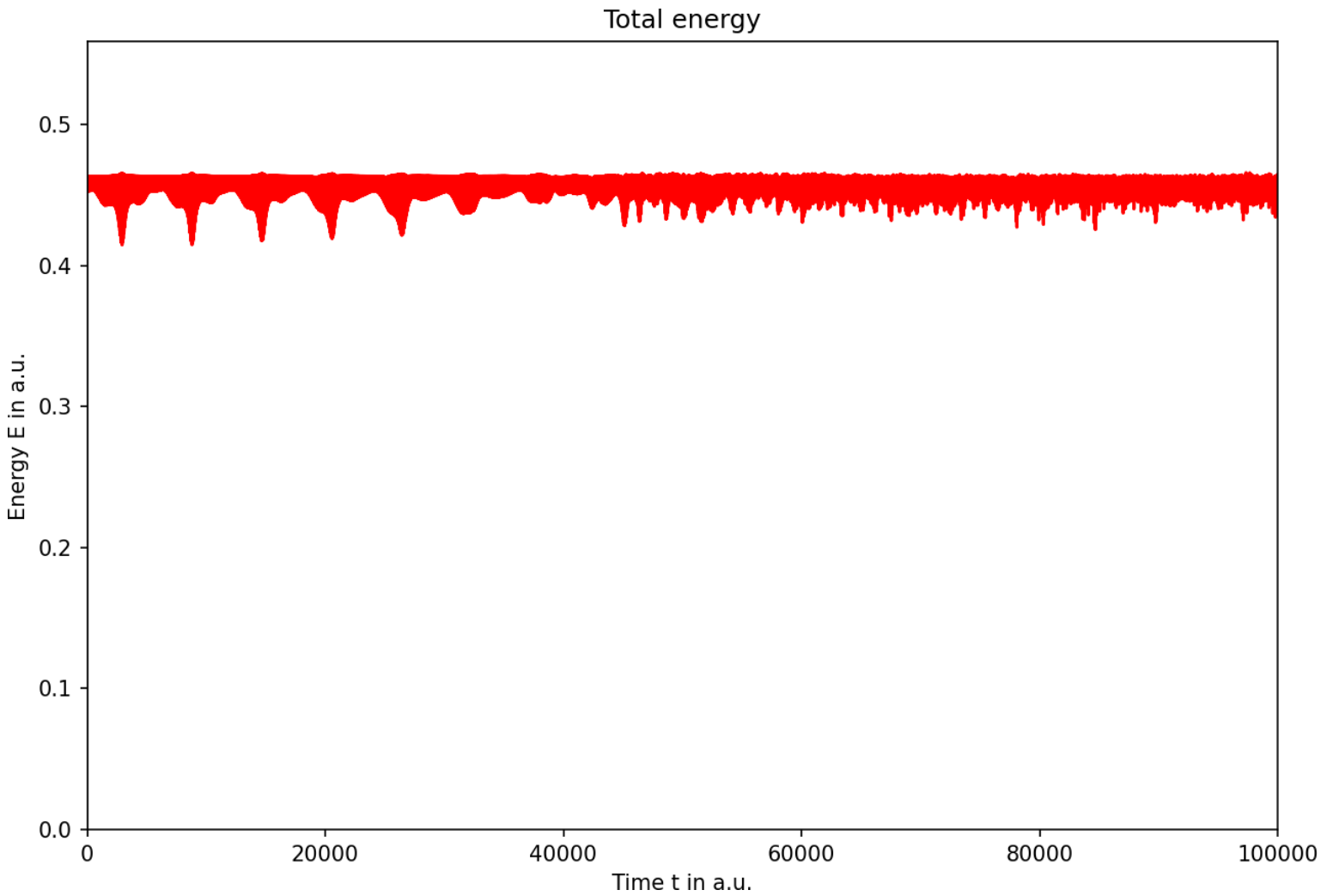
$$\beta = 0.6$$


Total energy
Energy E in a.u.
0.0
0.1
0.2
0.3
0.4
0.5
0
2500
5000
7500
10000
12500
15000
17500
20000
Time t in a.u.

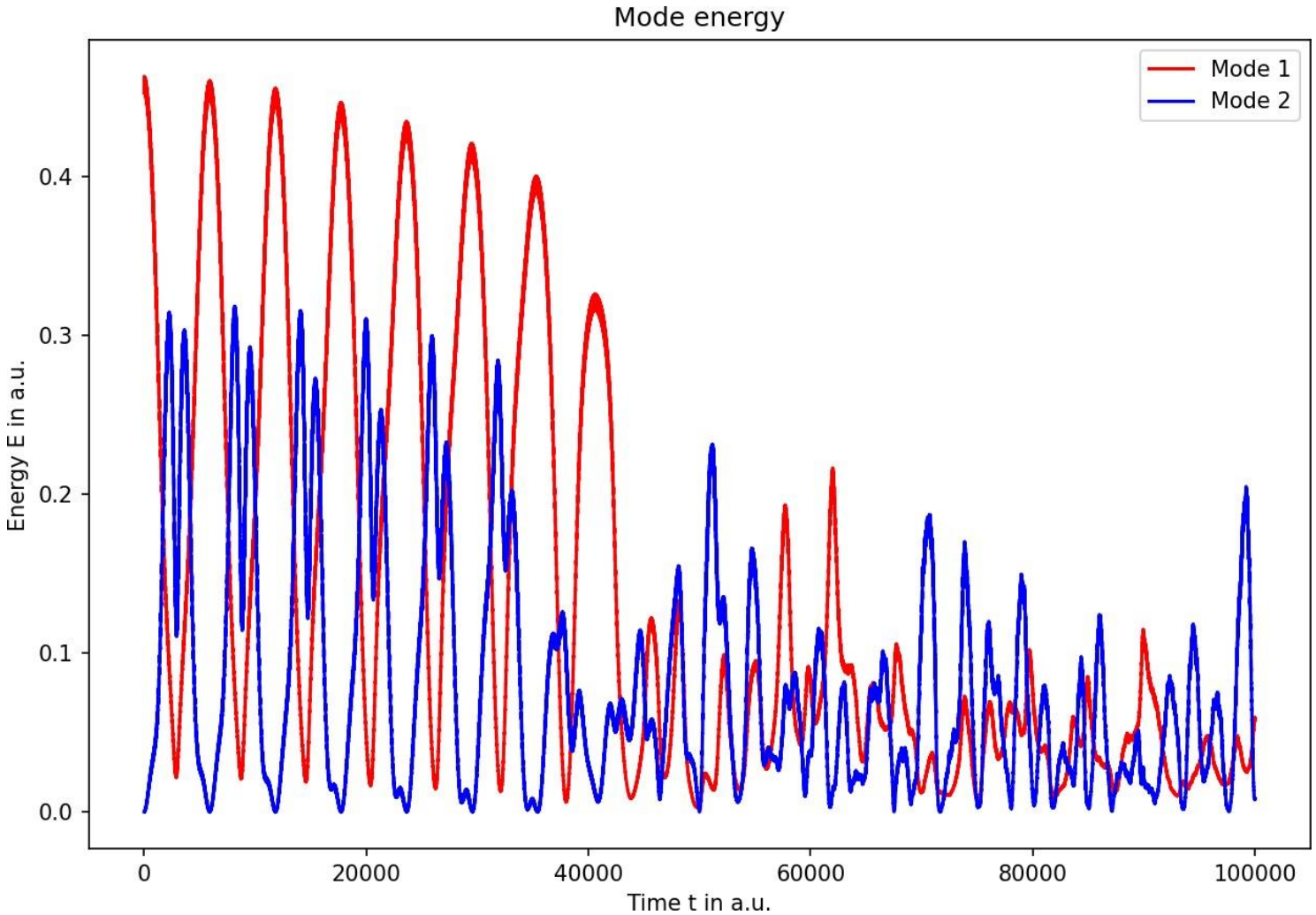
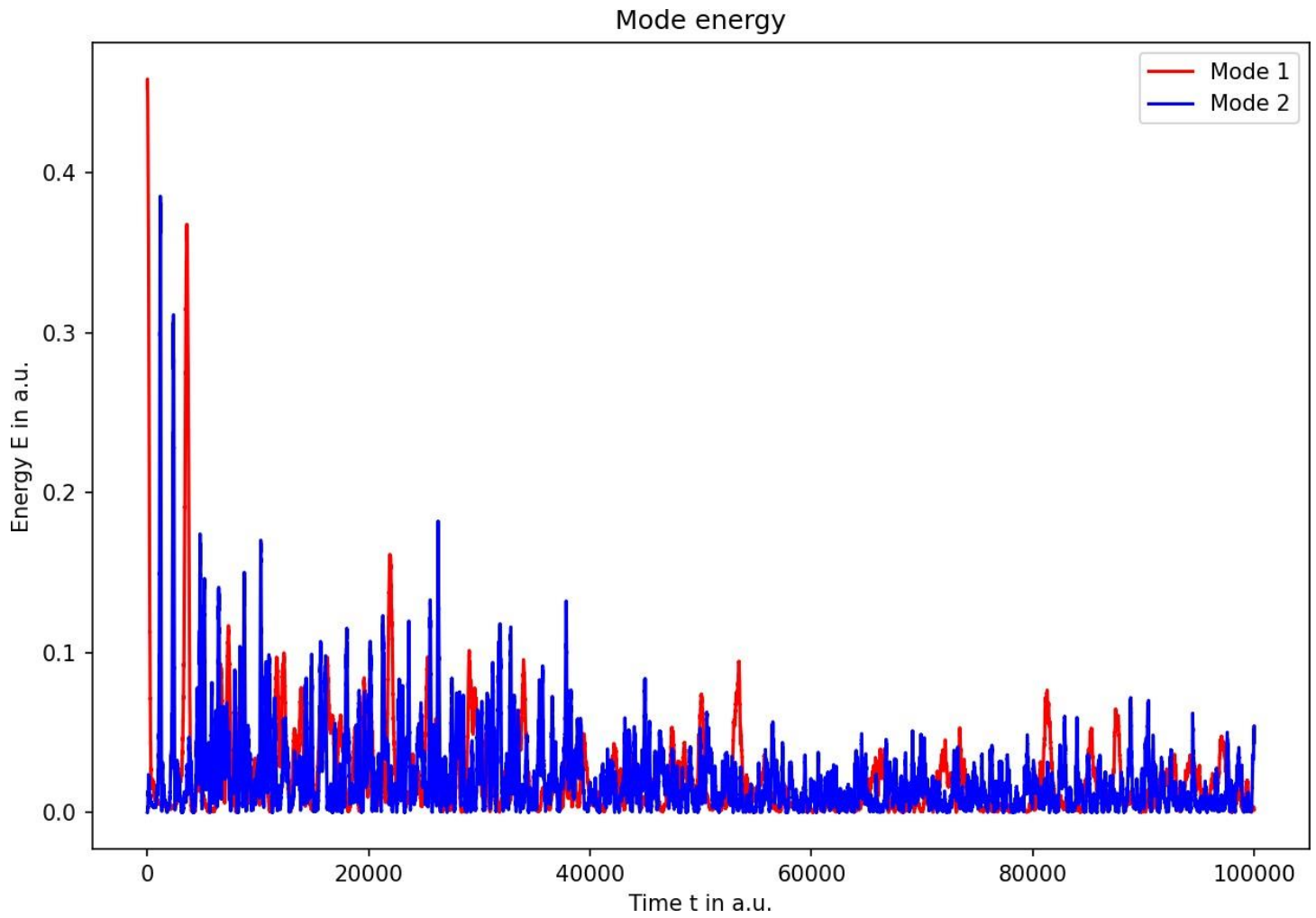
$$\beta = 0.6$$


Mode energy
Mode 1
Mode 2
Energy E in a.u.
0.0
0.1
0.2
0.3
0.4
0
2500
5000
7500
10000
12500
15000
17500
20000
Time t in a.u.

$$\beta = 1.1$$


Total energy
Energy E in a.u.
0.0
0.1
0.2
0.3
0.4
0.5
0
20000
40000
60000
80000
100000
Time t in a.u.

$$\beta = 1.1$$


Mode energy
Mode 1
Mode 2
Energy E in a.u.
0.0
0.1
0.2
0.3
0.4
0
20000
40000
60000
80000
100000
Time t in a.u.

$$\alpha = 0.9, \beta = 1.1, \mathrm{N} = 64$$