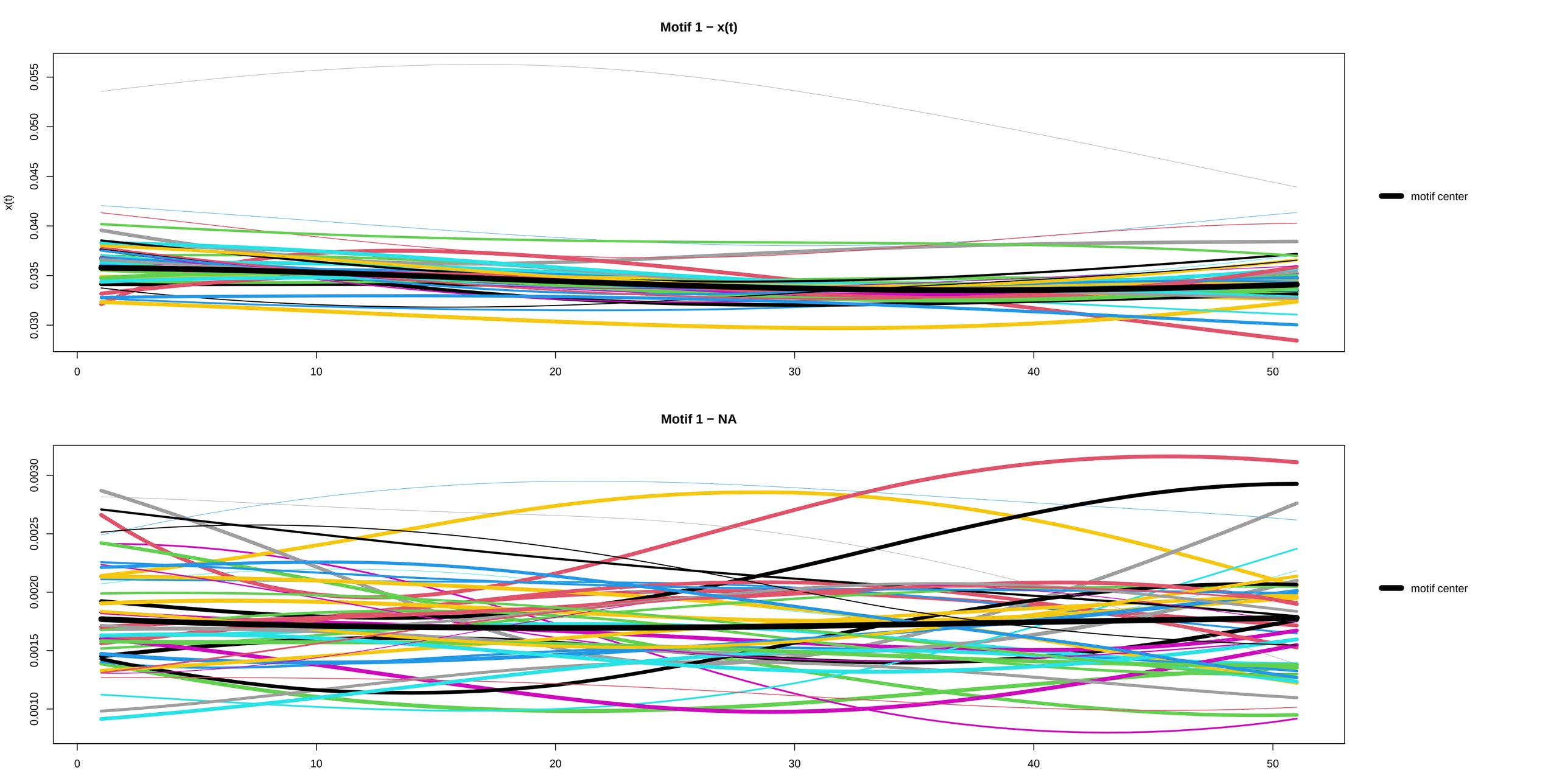
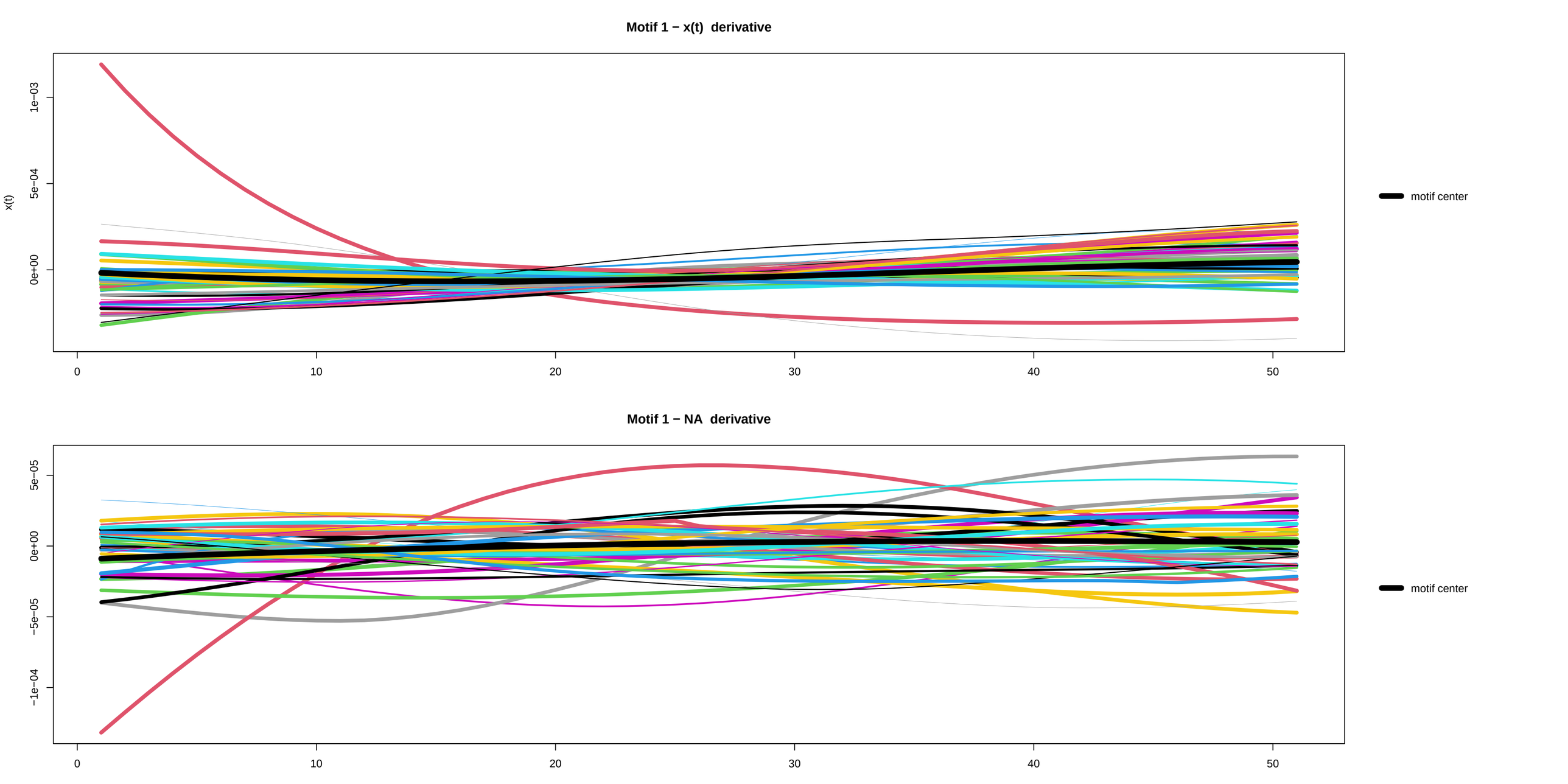
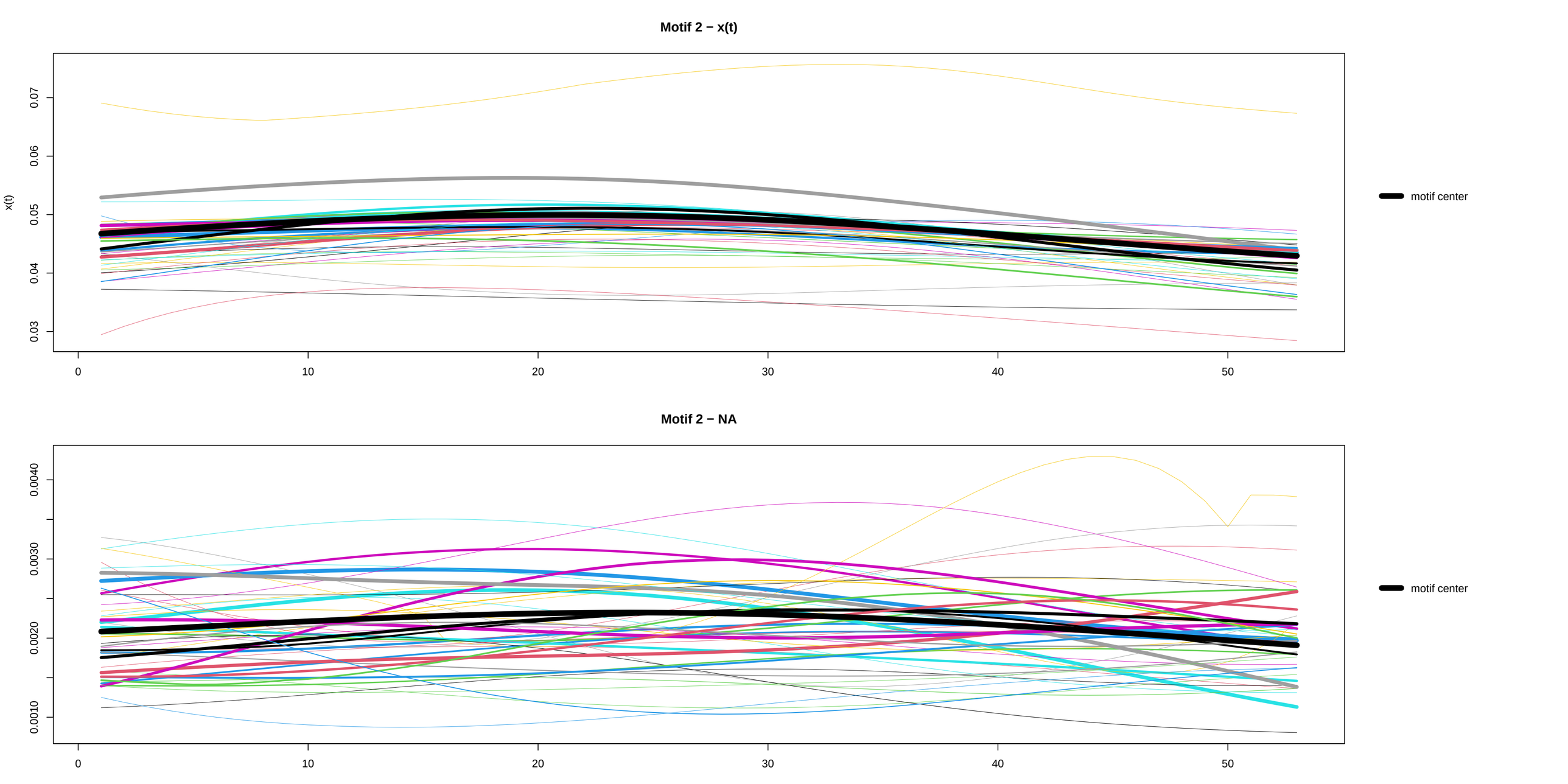
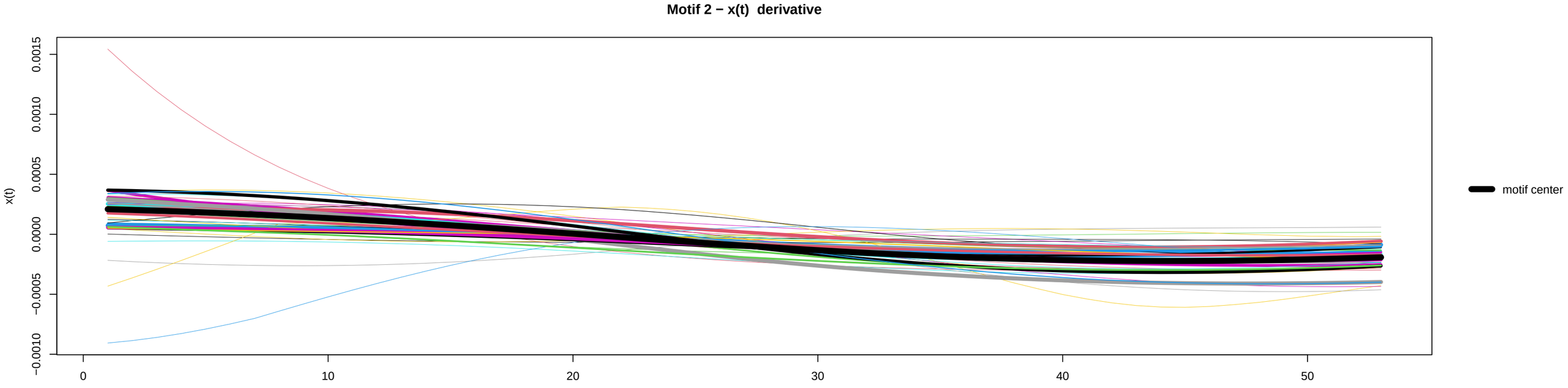
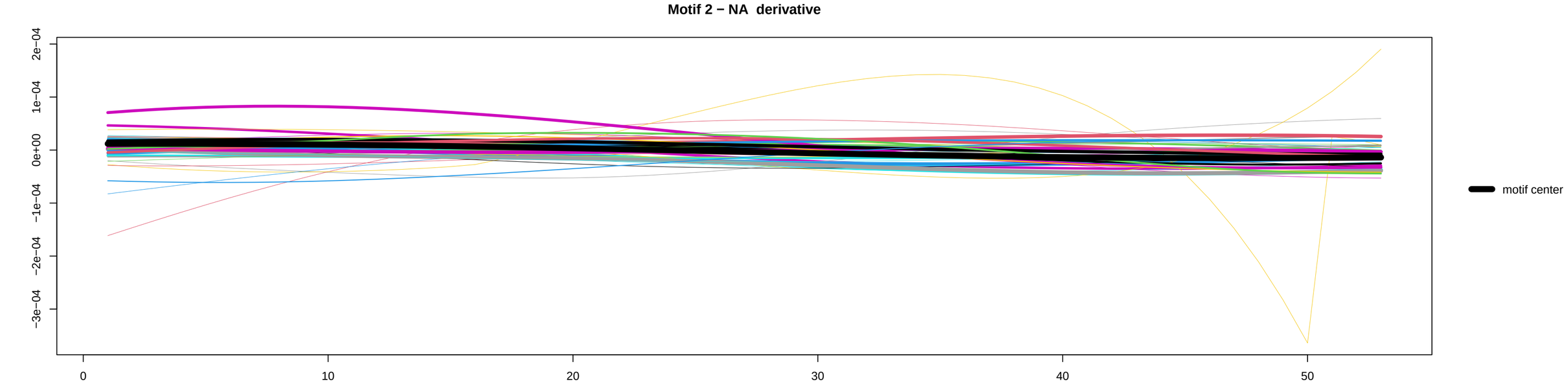
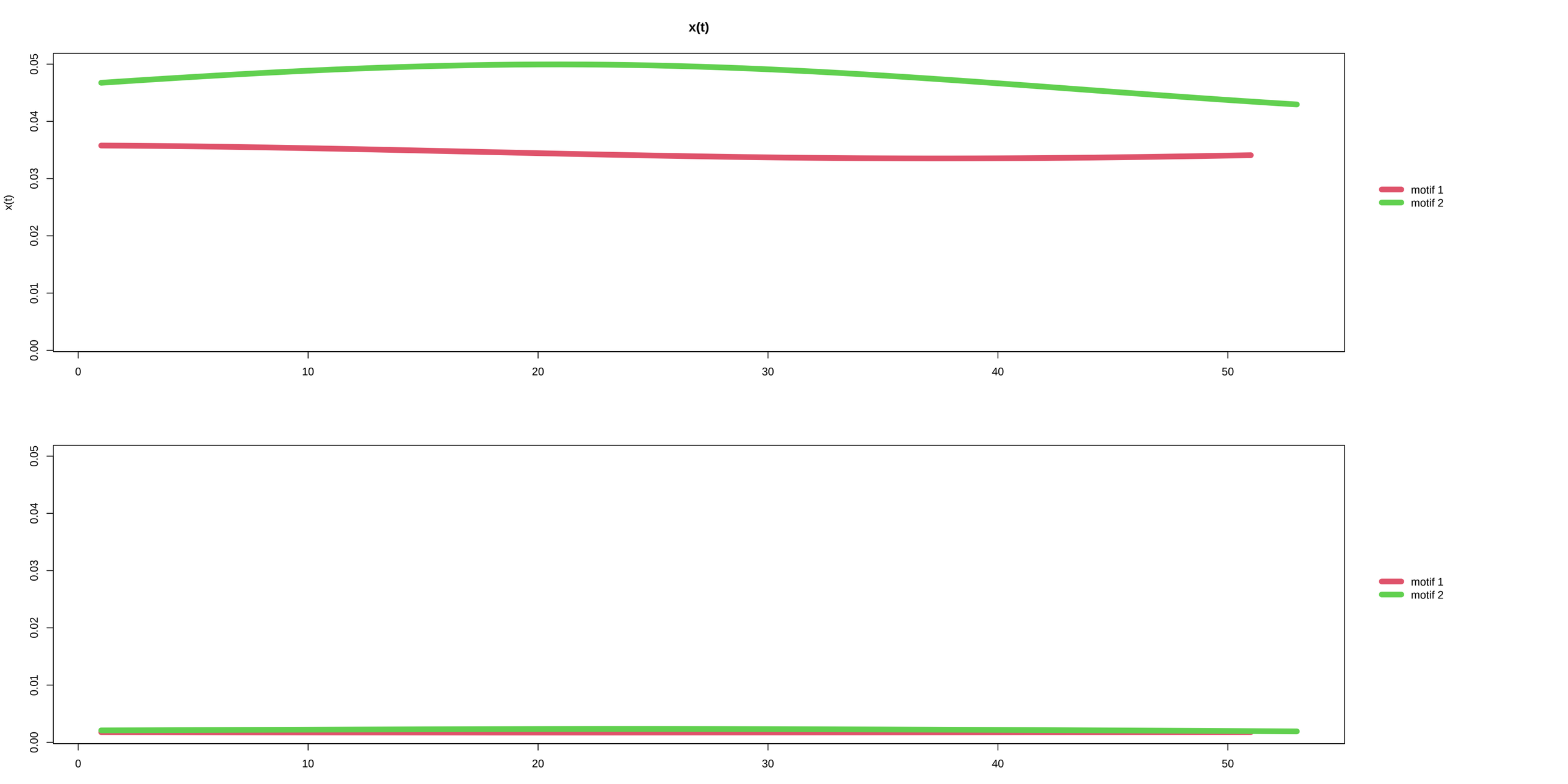

Motif 1 − x(t)
x(t)
0.030
0.035
0.040
0.045
0.050
0.055
0
10
20
30
40
50
motif center
Motif 1 − NA
0.0010
0.0015
0.0020
0.0025
0.0030
0
10
20
30
40
50
motif center

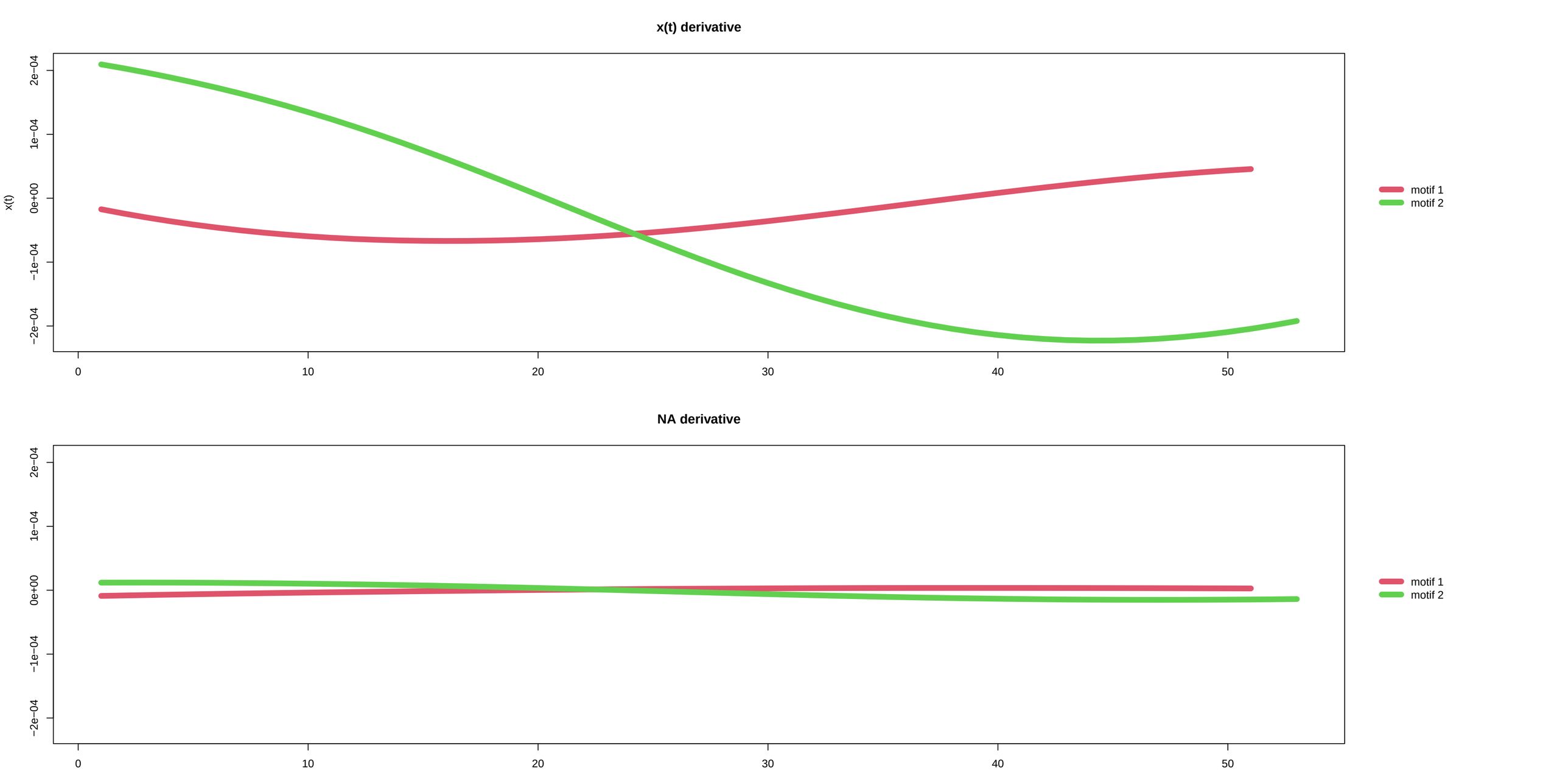

Motif 1 − x(t) derivative
x(t)
1e−03
5e−04
0e+00
0
10
20
30
40
50
motif center
Motif 1 − NA derivative
5e−05
0e+00
−5e−05
−1e−04
0
10
20
30
40
50
motif center

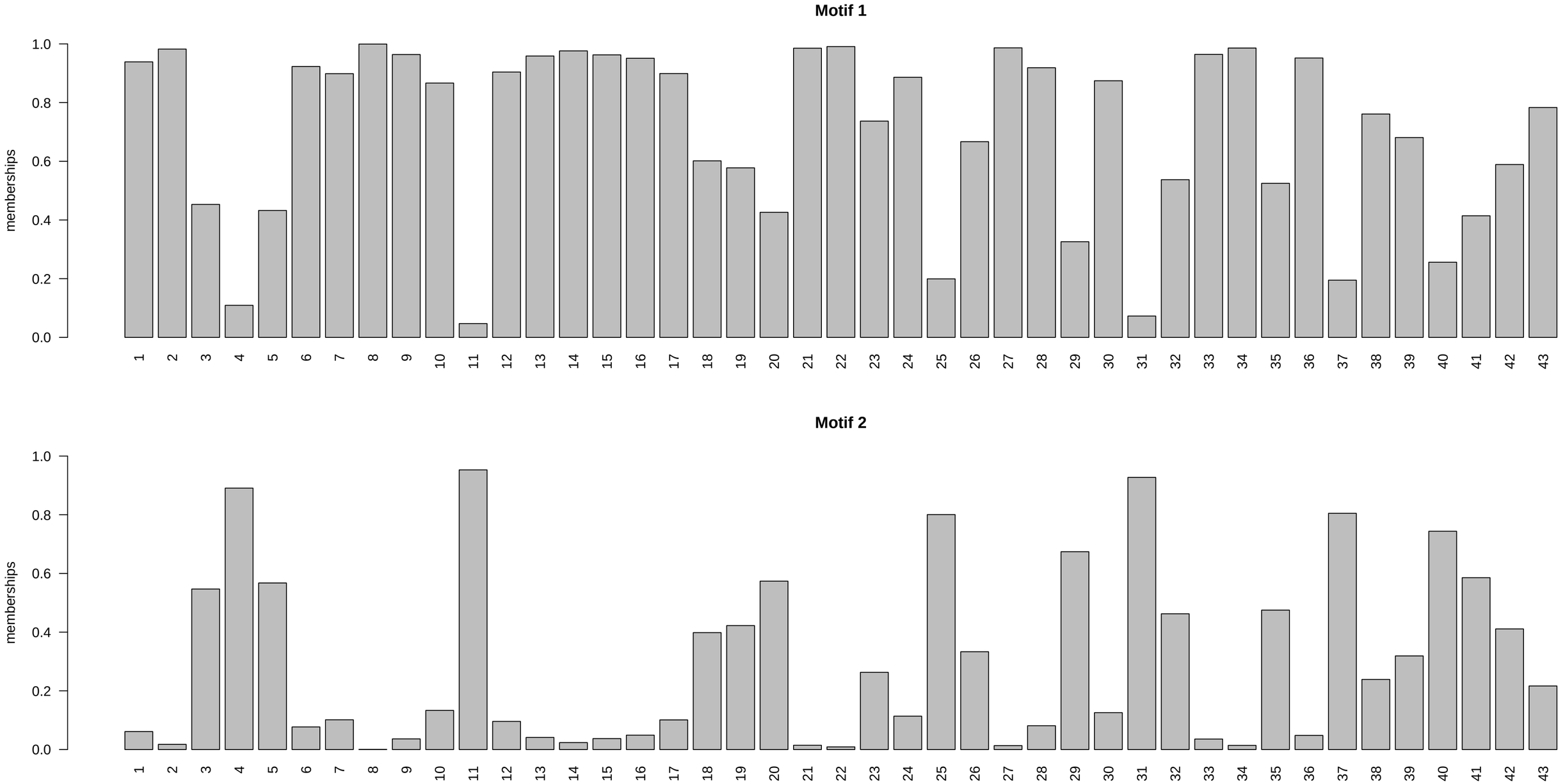

Motif 2 − x(t)
x(t)
0.03
0.04
0.05
0.06
0.07
0
10
20
30
40
50
motif center
Motif 2 − NA
0.0010
0.0020
0.0030
0.0040
0
10
20
30
40
50
motif center

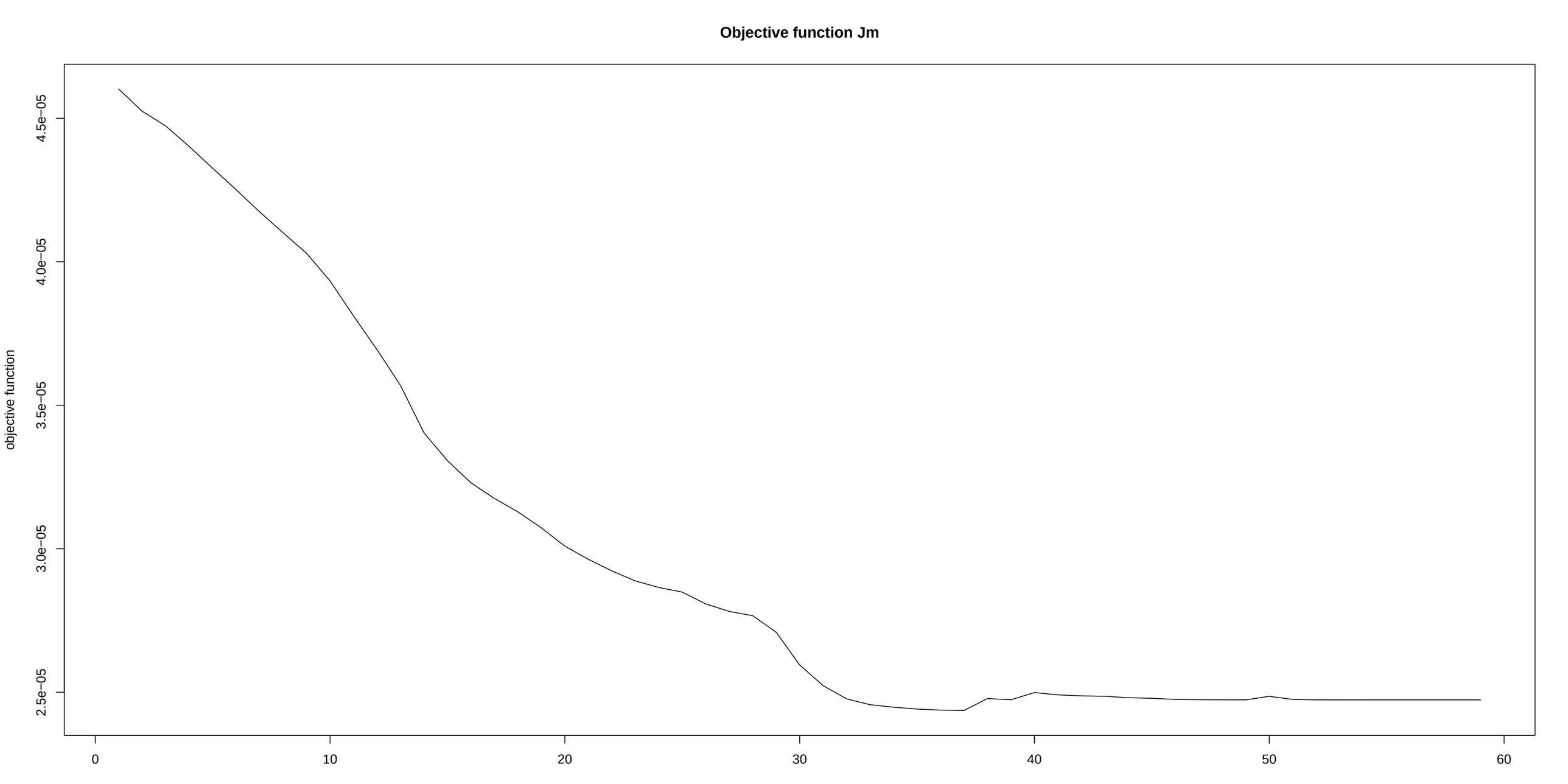

Motif 2 − x(t) derivative
x(t)
0.0015
0.0010
0.0005
0.0000
−0.0005
−0.0010
0
10
20
30
40
50
motif center

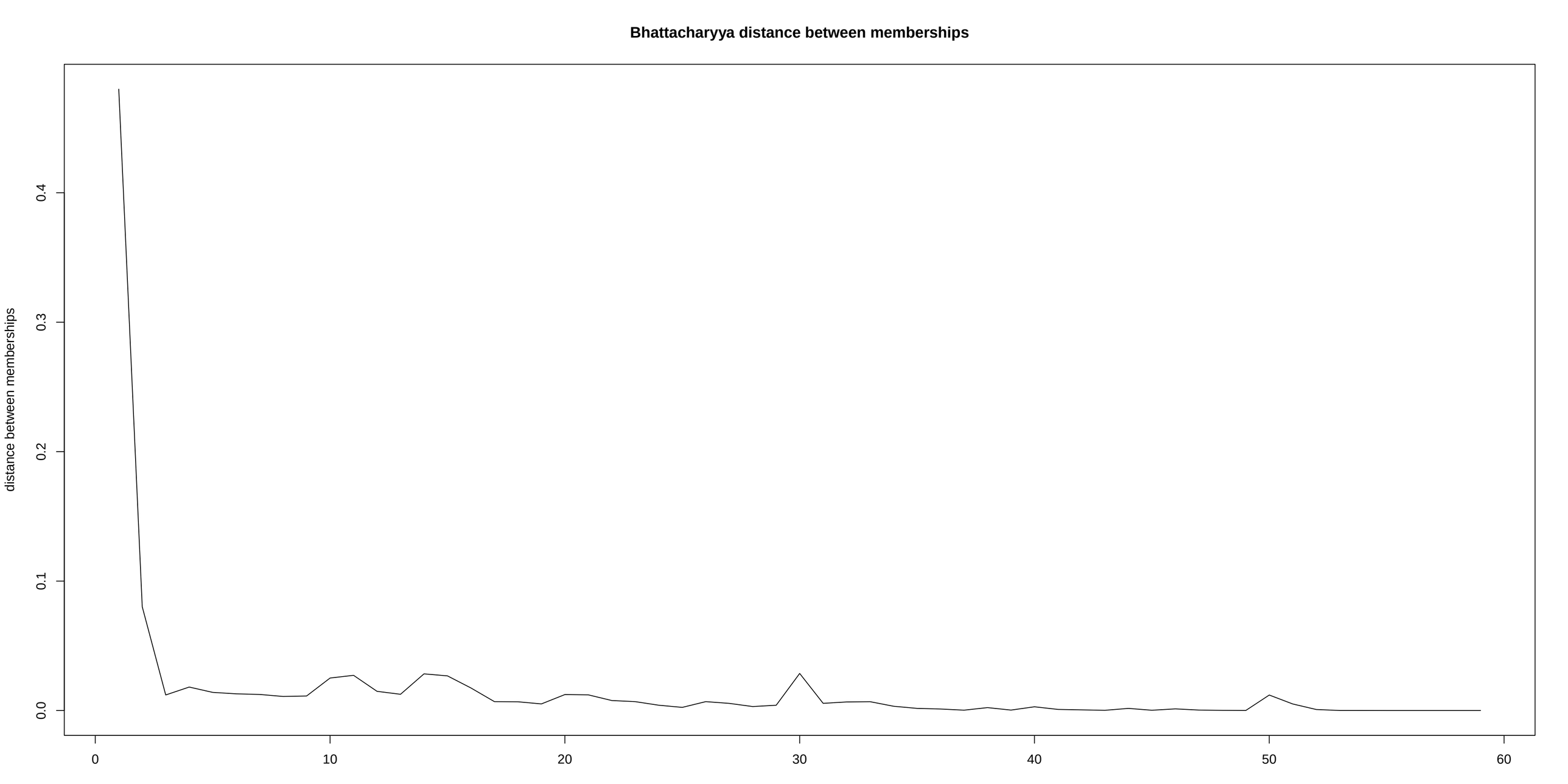

Motif 2 − NA derivative
2e−04
1e−04
0e+00
−1e−04
−2e−04
−3e−04
0
10
20
30
40
50
motif center


x(t)
x(t)
0.00
0.01
0.02
0.03
0.04
0.05
0
10
20
30
40
50
motif 1
motif 2
0.00
0.01
0.02
0.03
0.04
0.05
0
10
20
30
40
50
motif 1
motif 2


x(t) derivative
x(t)
2e−04
1e−04
0e+00
−1e−04
−2e−04
0
10
20
30
40
50
motif 1
motif 2
NA derivative
2e−04
1e−04
0e+00
−1e−04
−2e−04
0
10
20
30
40
50
motif 1
motif 2


Motif 1
memberships
1.0
0.8
0.6
0.4
0.2
0.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43
Motif 2
memberships
1.0
0.8
0.6
0.4
0.2
0.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43


Objective function Jm
objective function
4.5e−05
4.0e−05
3.5e−05
3.0e−05
2.5e−05
0
10
20
30
40
50
60


Bhattacharyya distance between memberships
distance between memberships
0.0
0.1
0.2
0.3
0.4
0
10
20
30
40
50
60