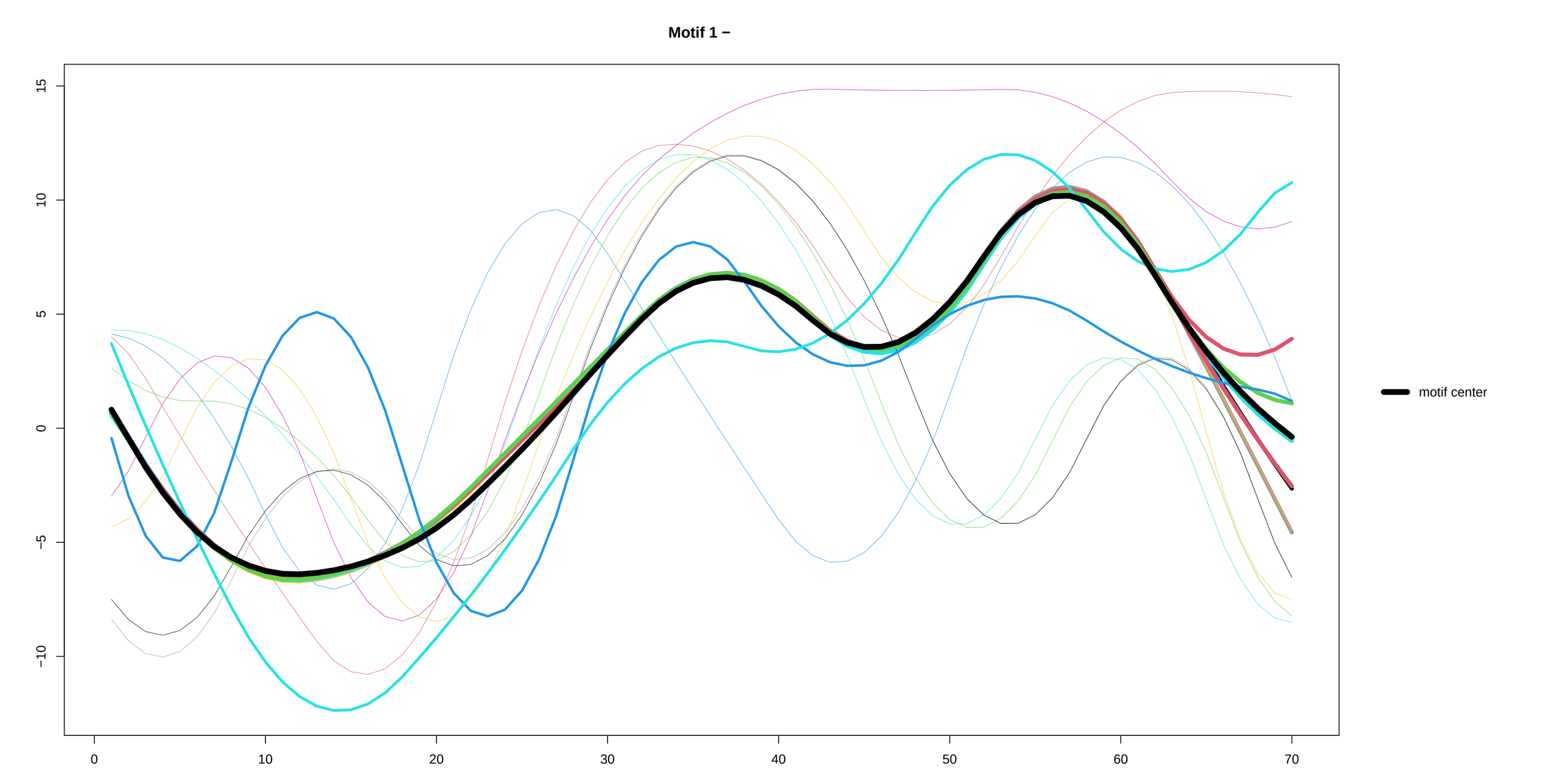
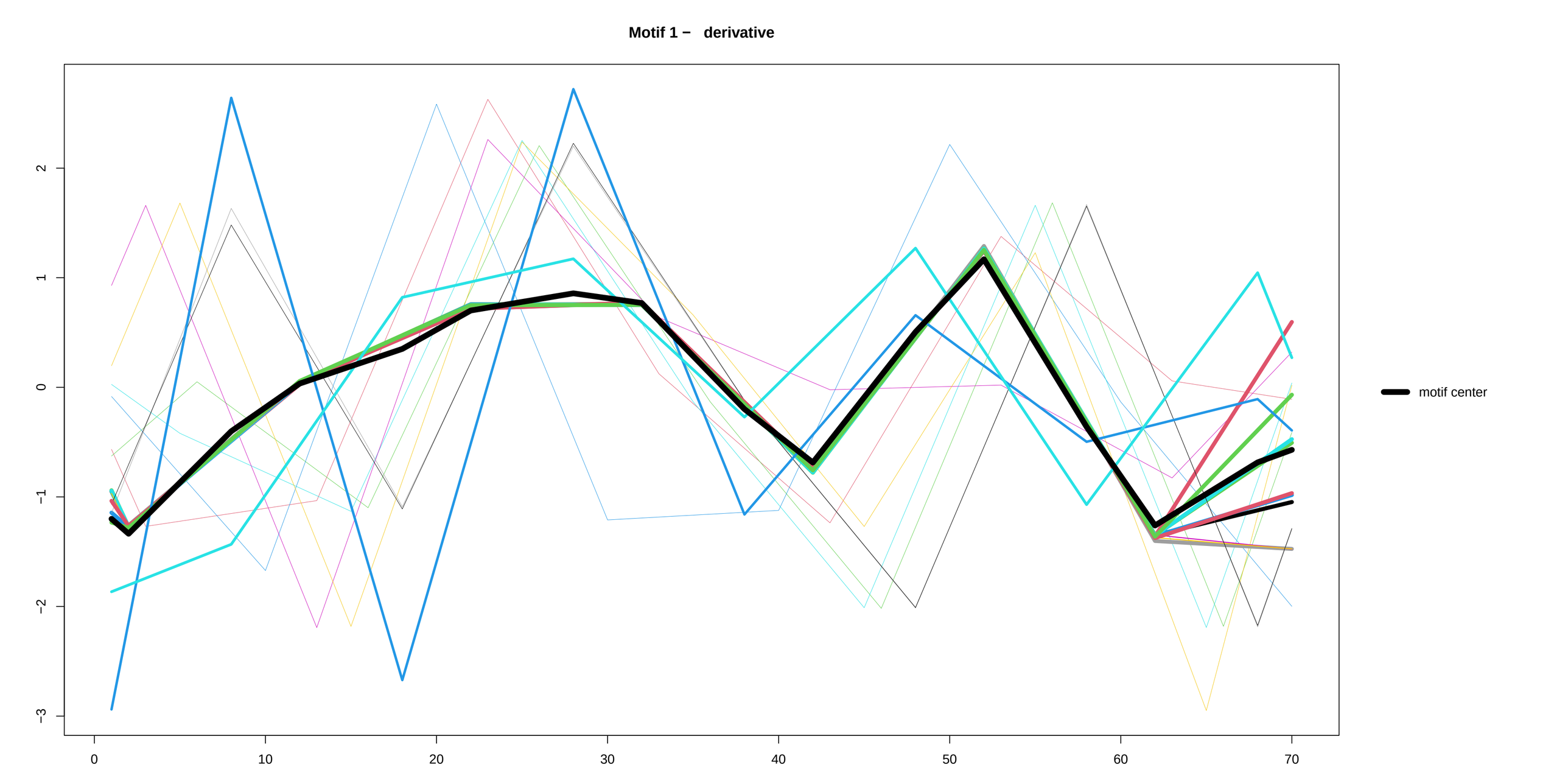
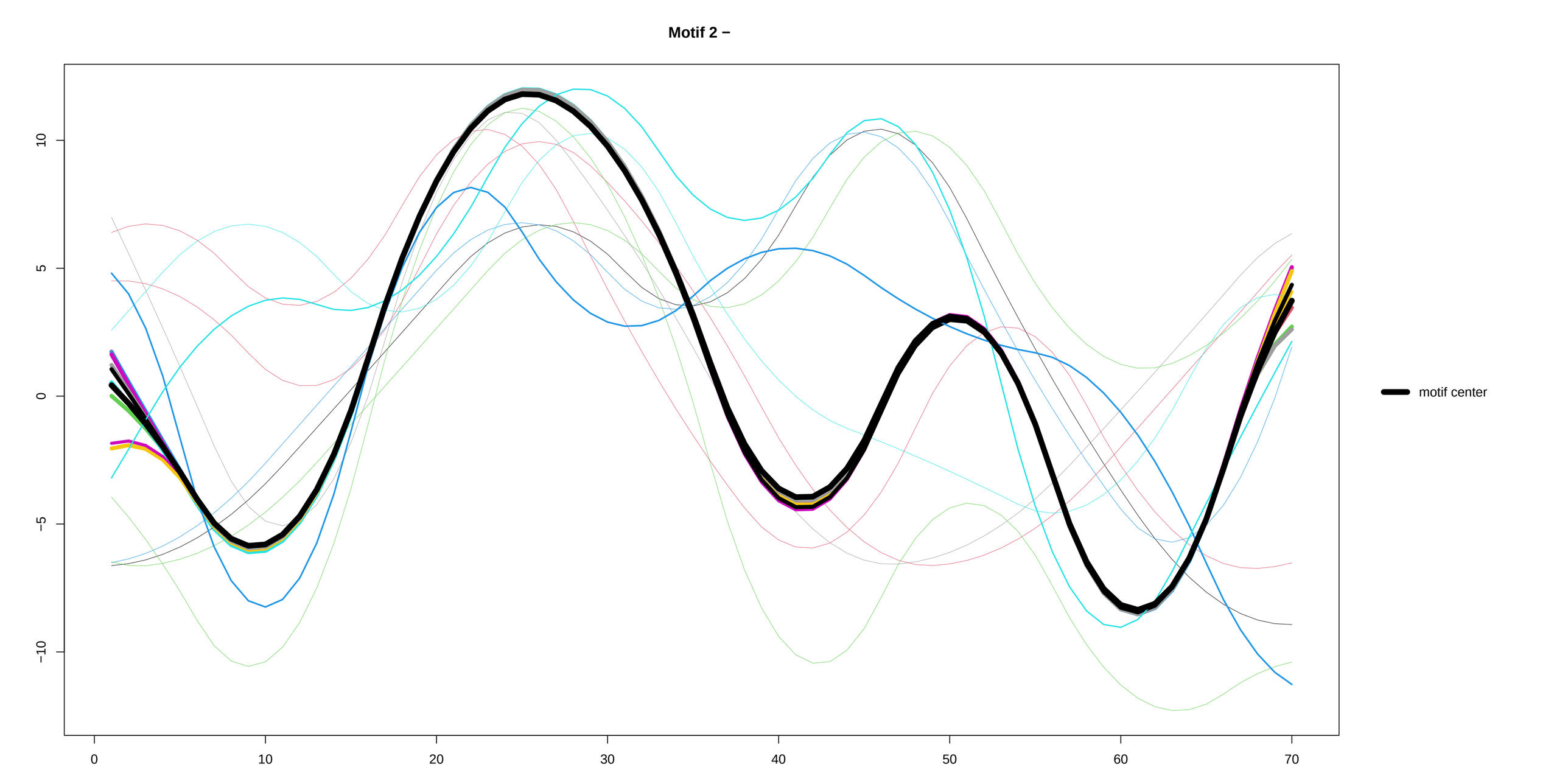
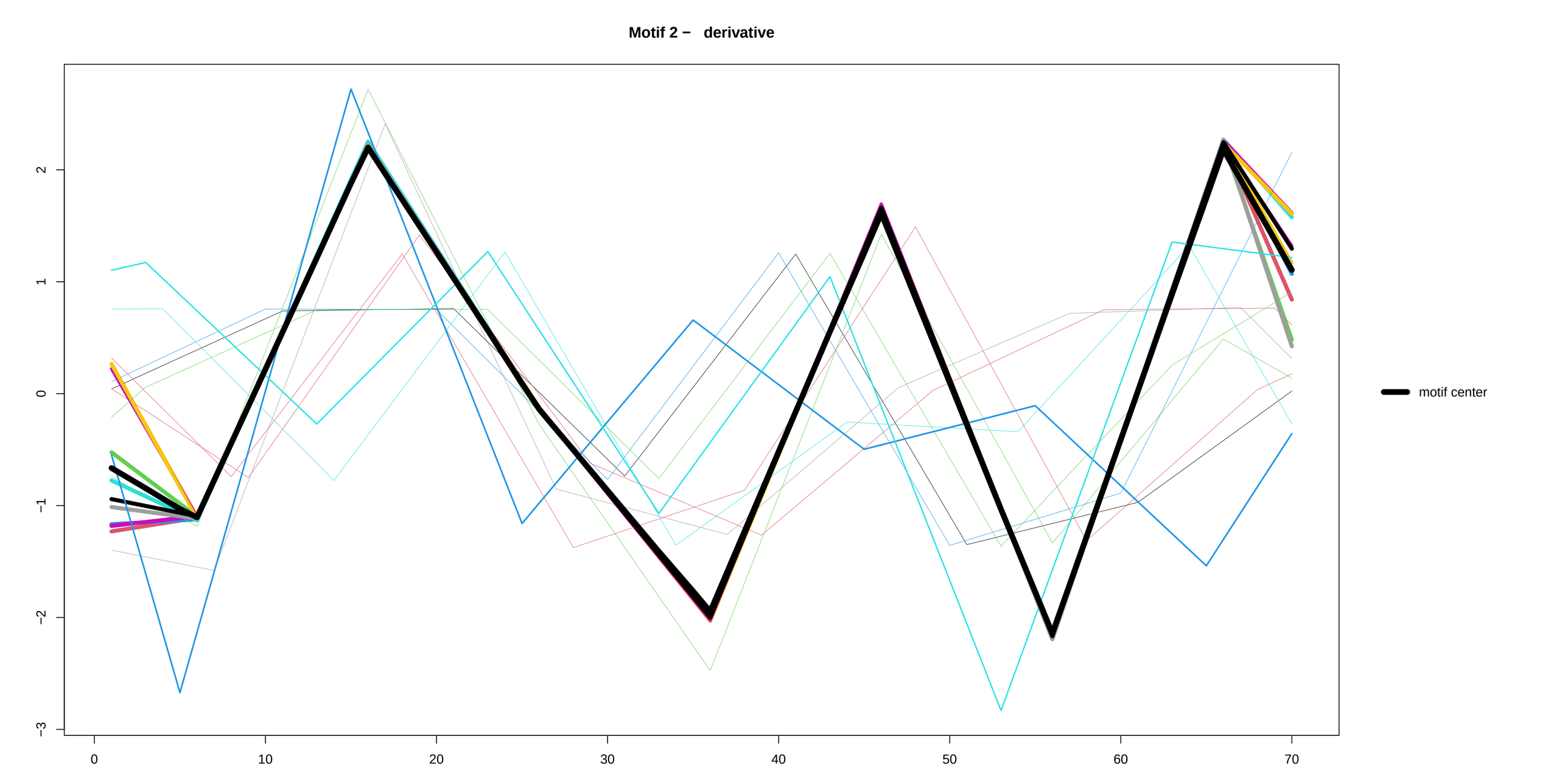
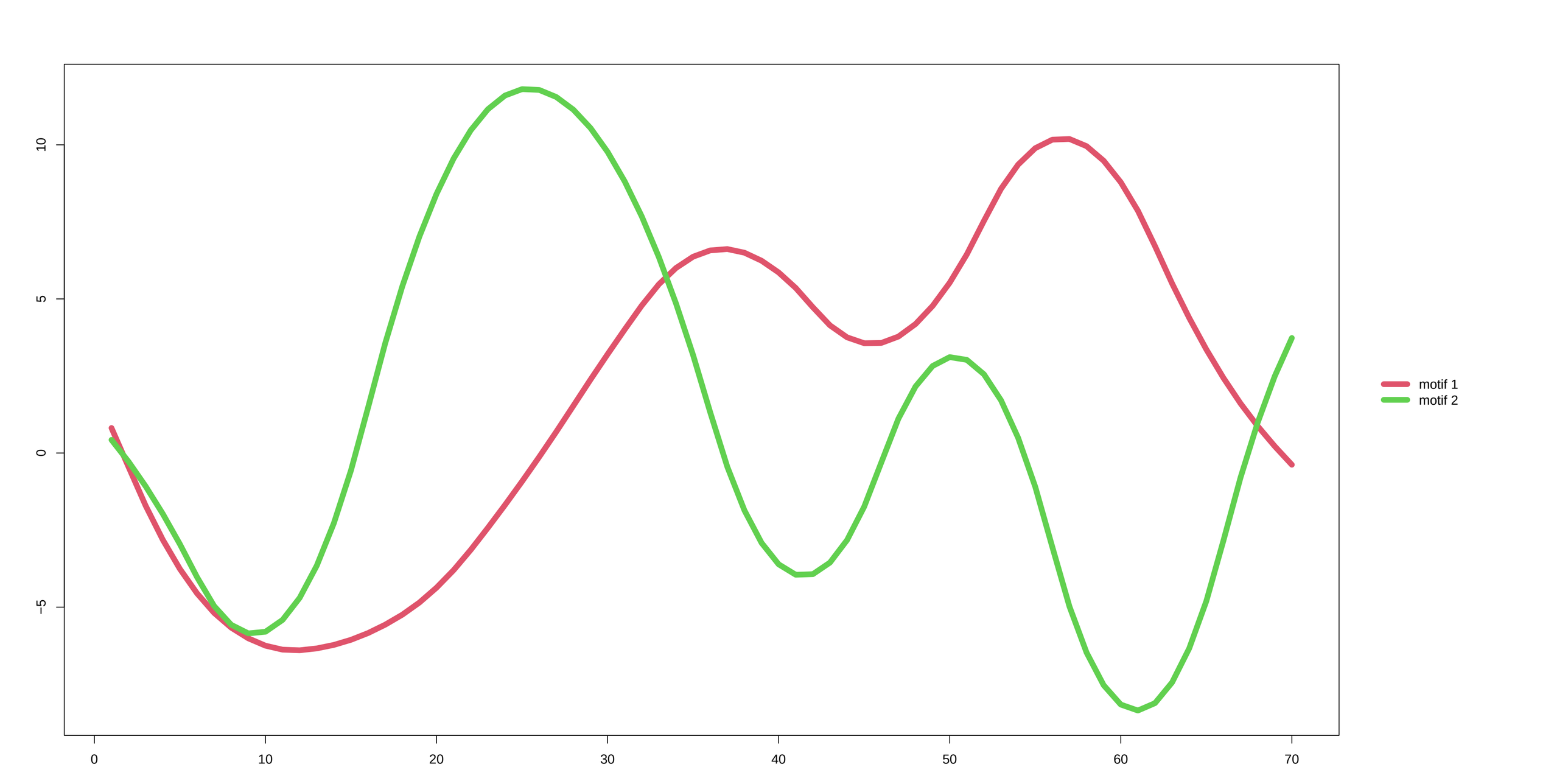
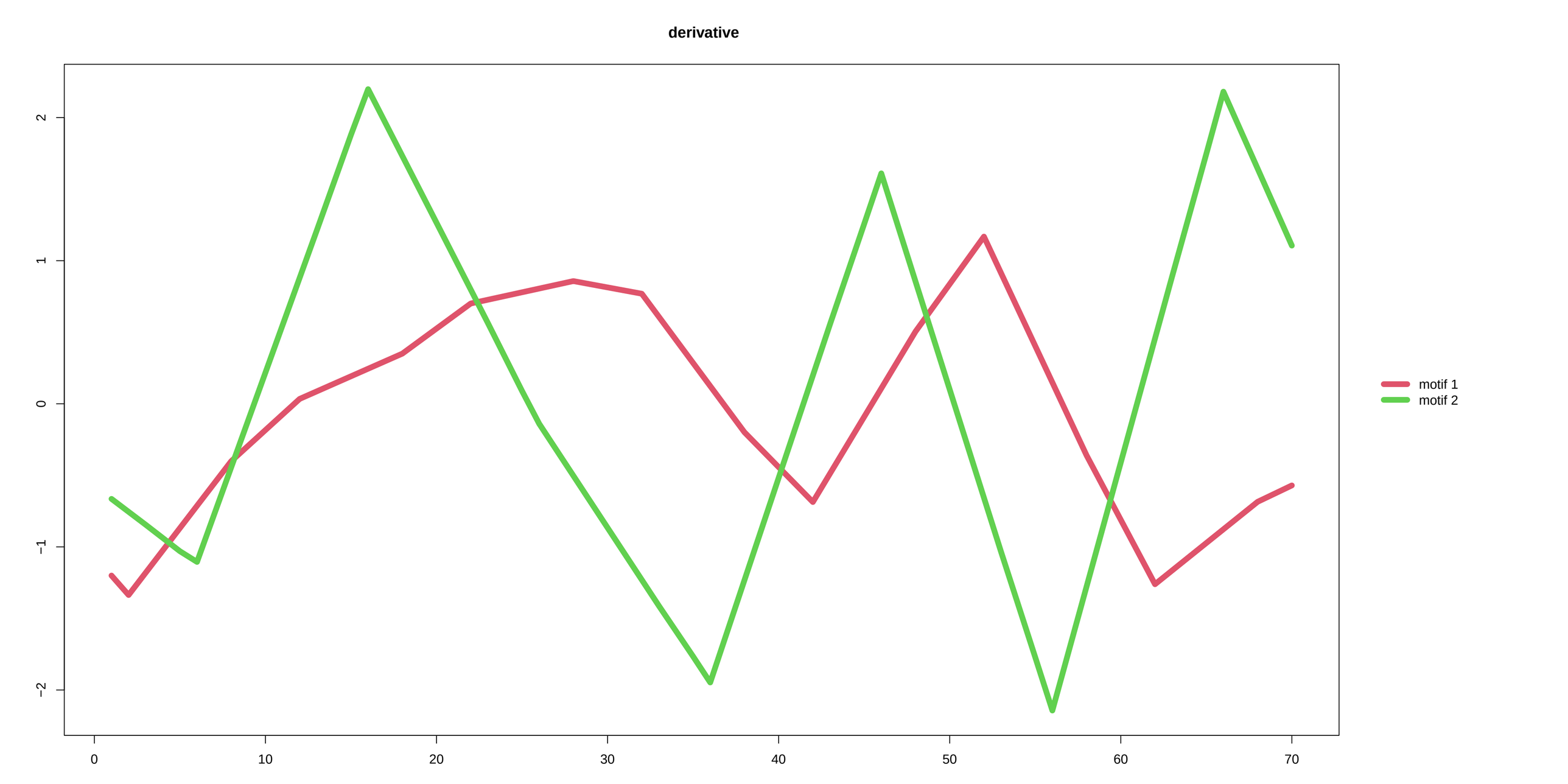

Motif 1 −
15
10
5
0
−5
−10
0
10
20
30
40
50
60
70
motif center


Motif 1 − derivative
2
1
0
−1
−2
−3
0
10
20
30
40
50
60
70
motif center

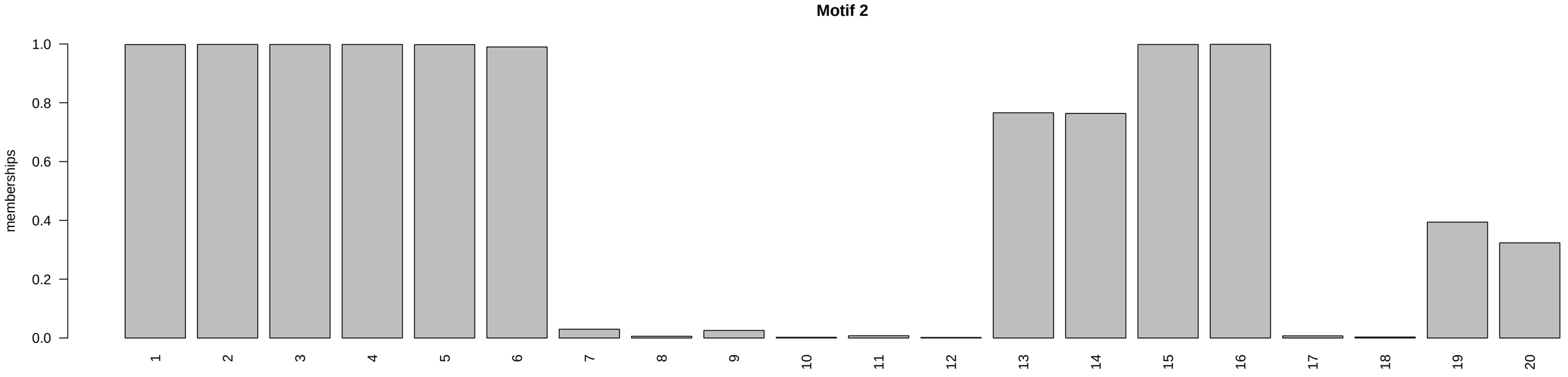

Motif 2 −
10
5
0
−5
−10
0
10
20
30
40
50
60
70
motif center

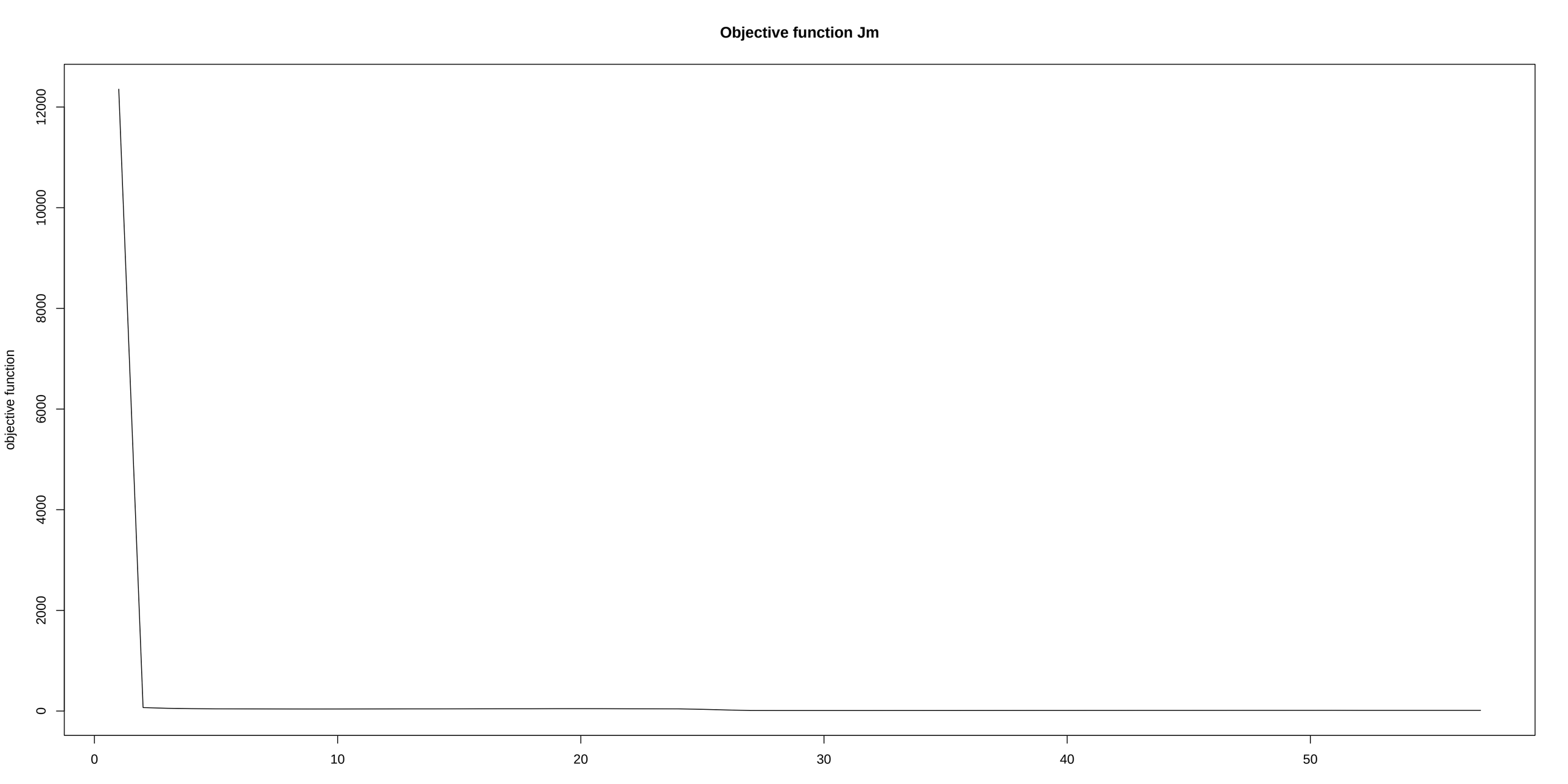

Motif 2 – derivative
2
1
0
−1
−2
−3
0
10
20
30
40
50
60
70
motif center

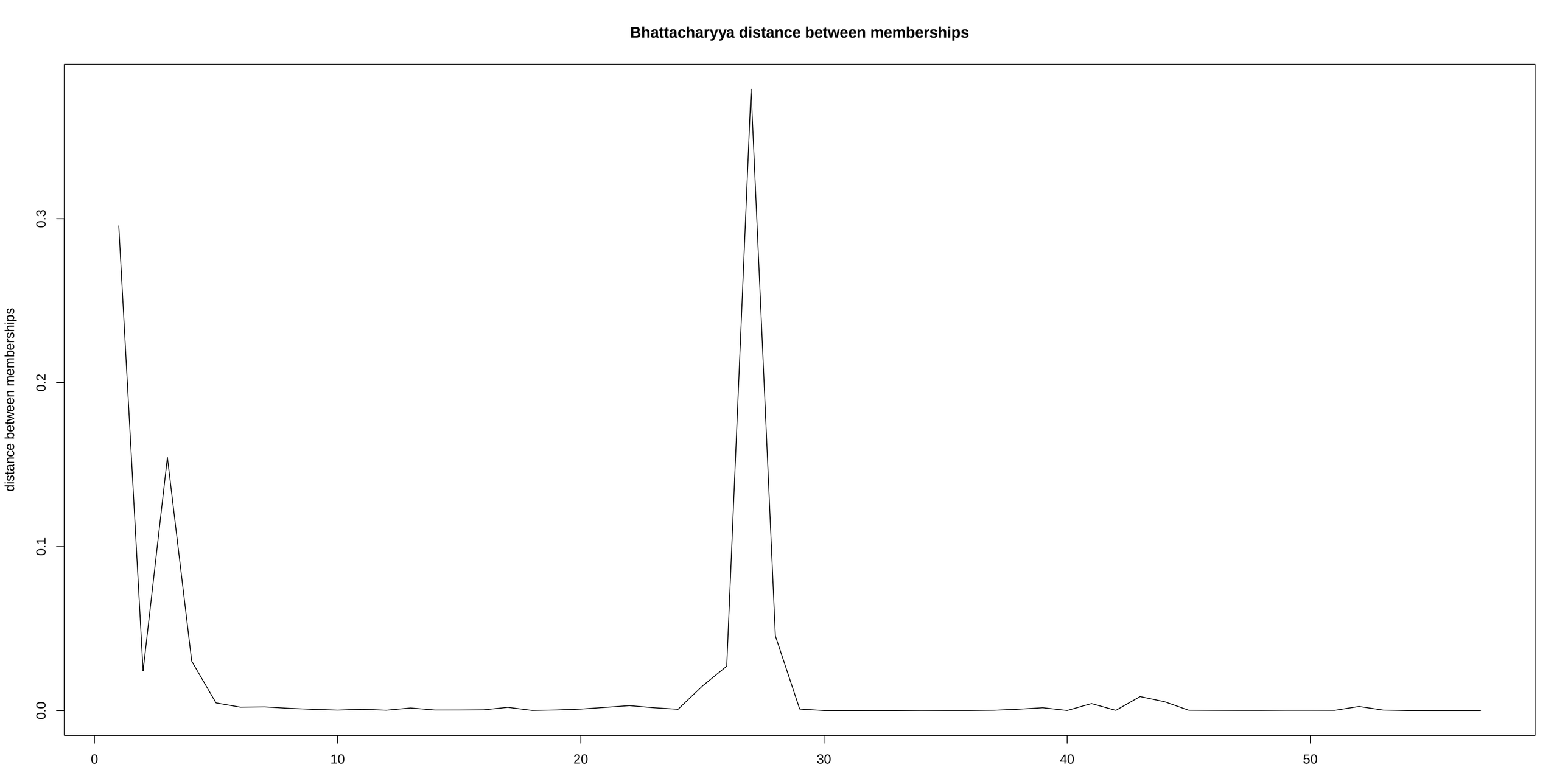

10
5
0
−5
0
10
20
30
40
50
60
70
motif 1
motif 2


derivative
2
1
0
−1
−2
0
10
20
30
40
50
60
70
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


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


Objective function Jm
objective function
0
2000
4000
6000
8000
10000
12000
0
10
20
30
40
50


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