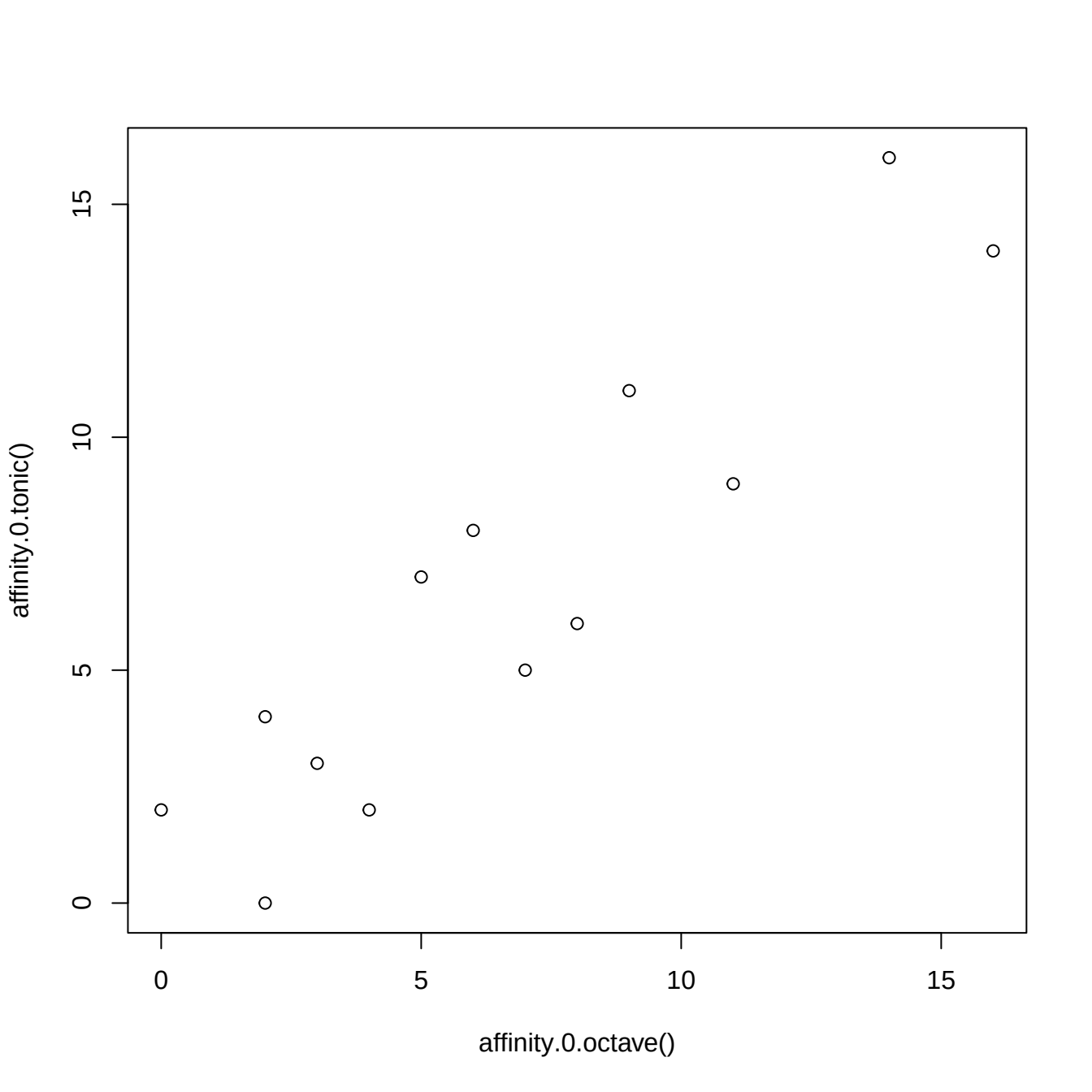
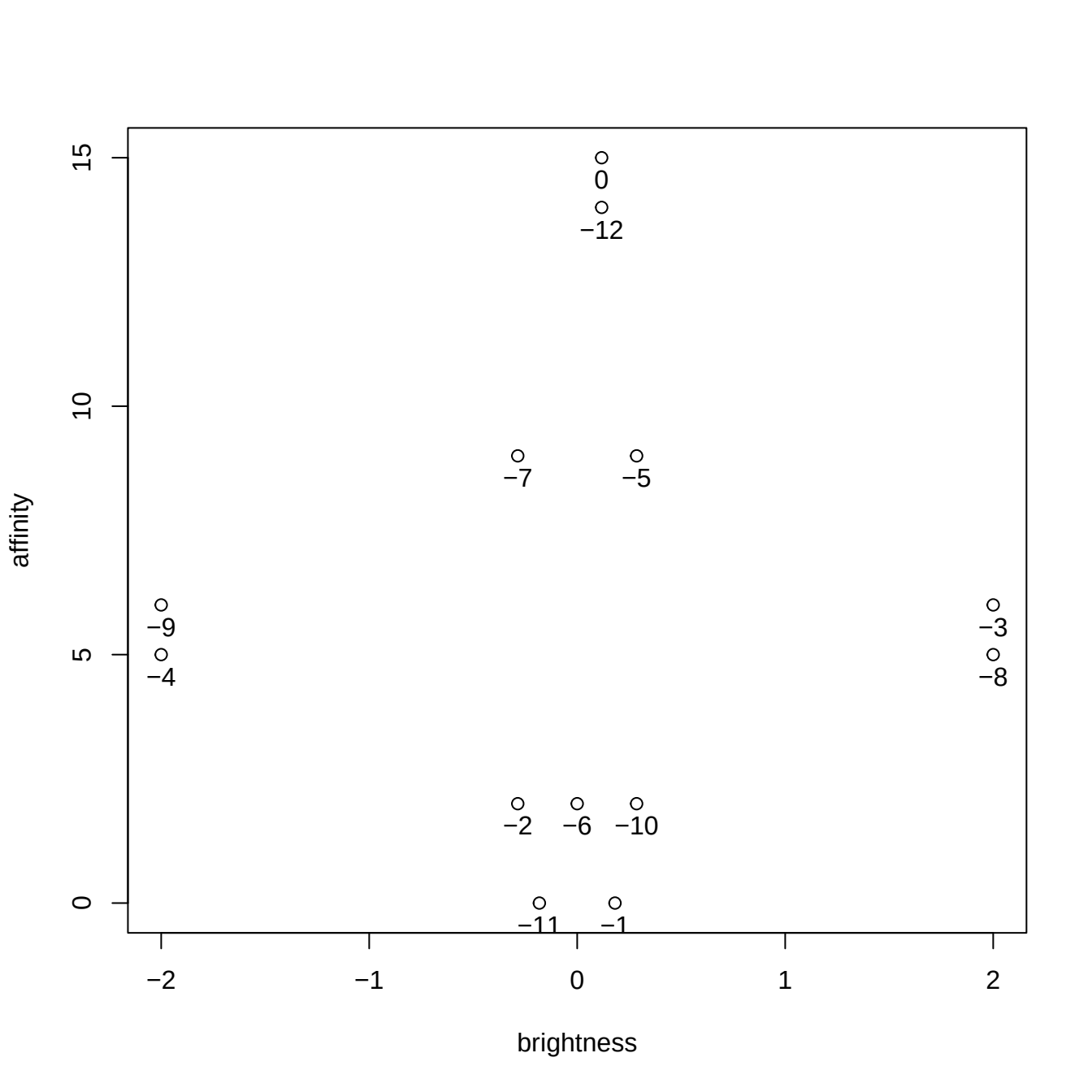
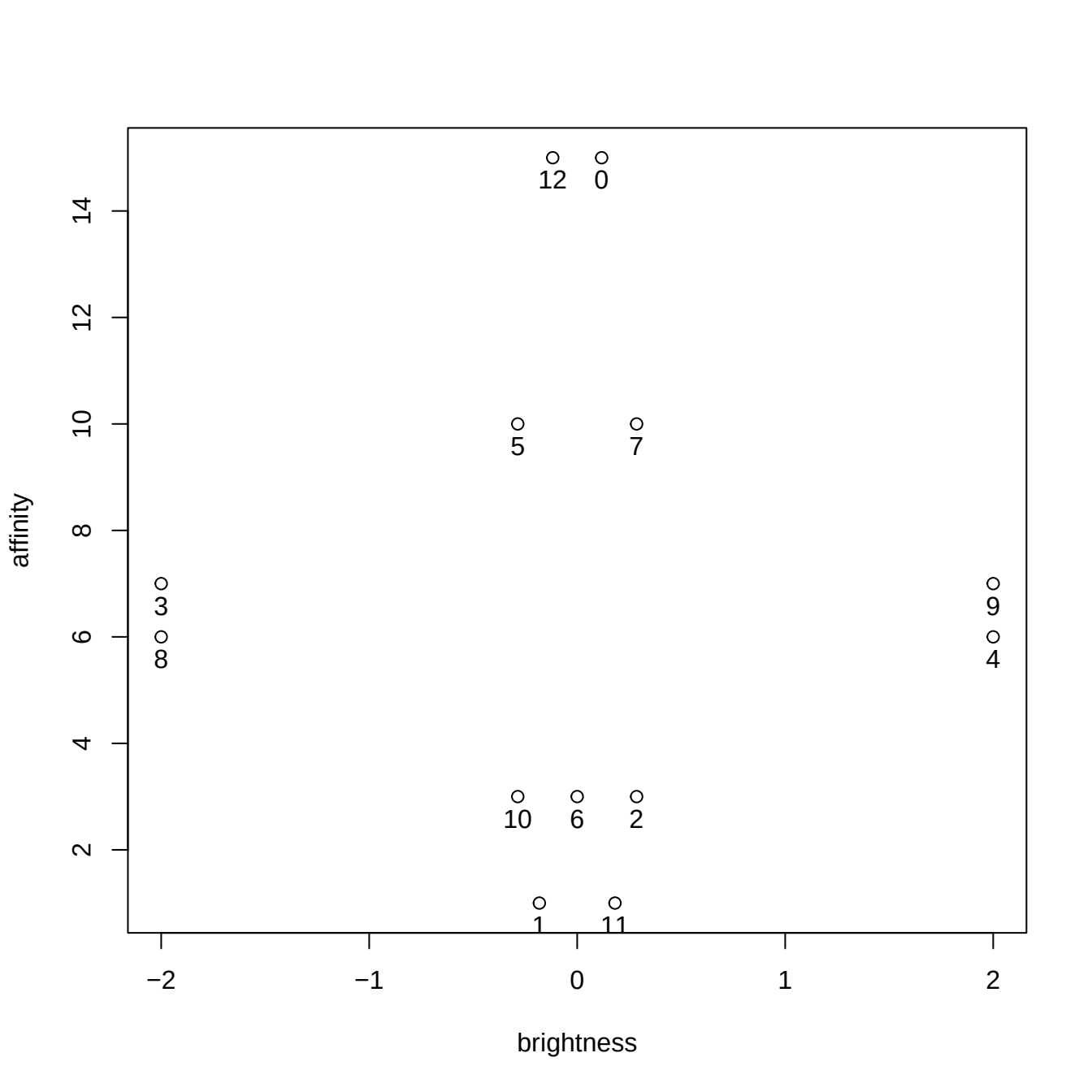
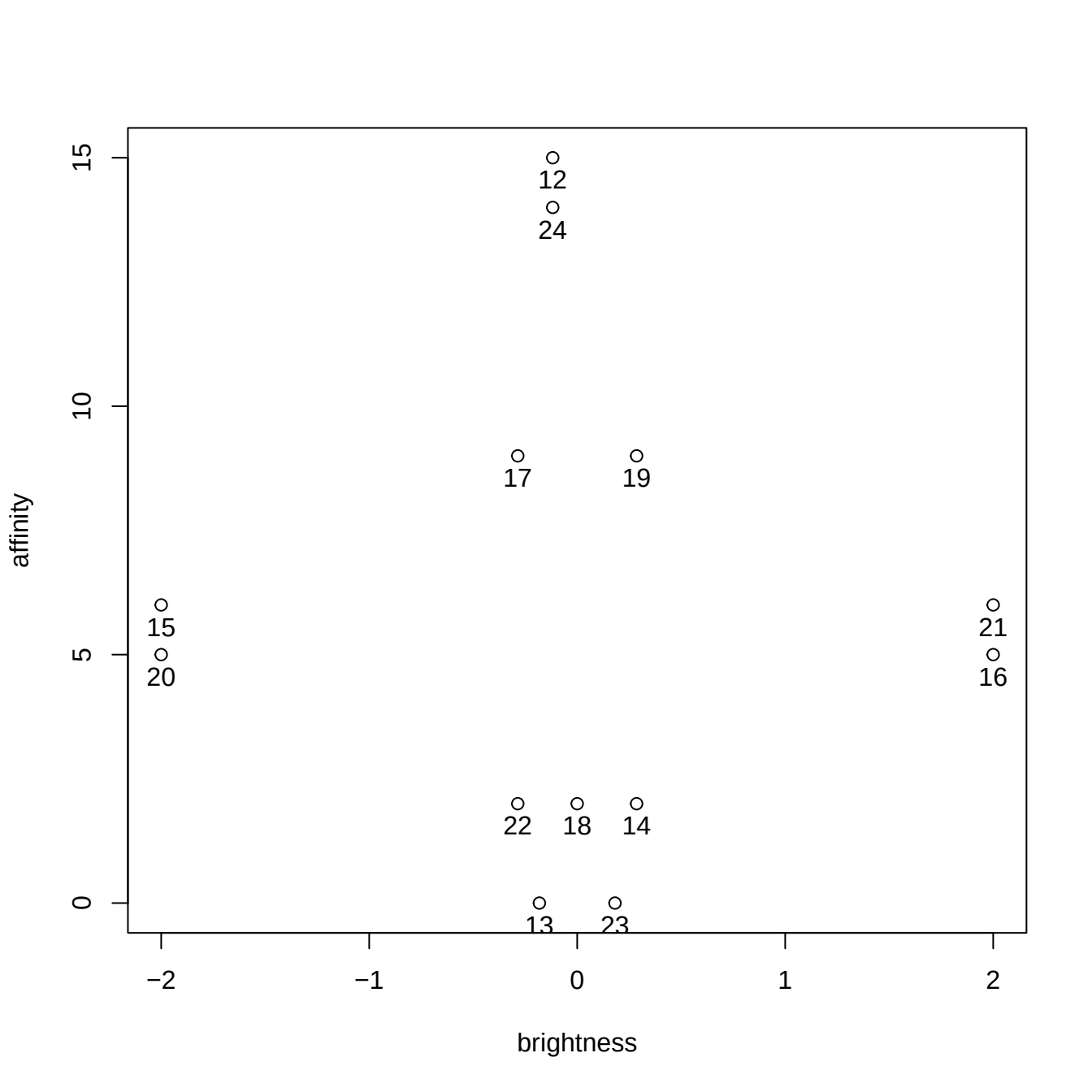
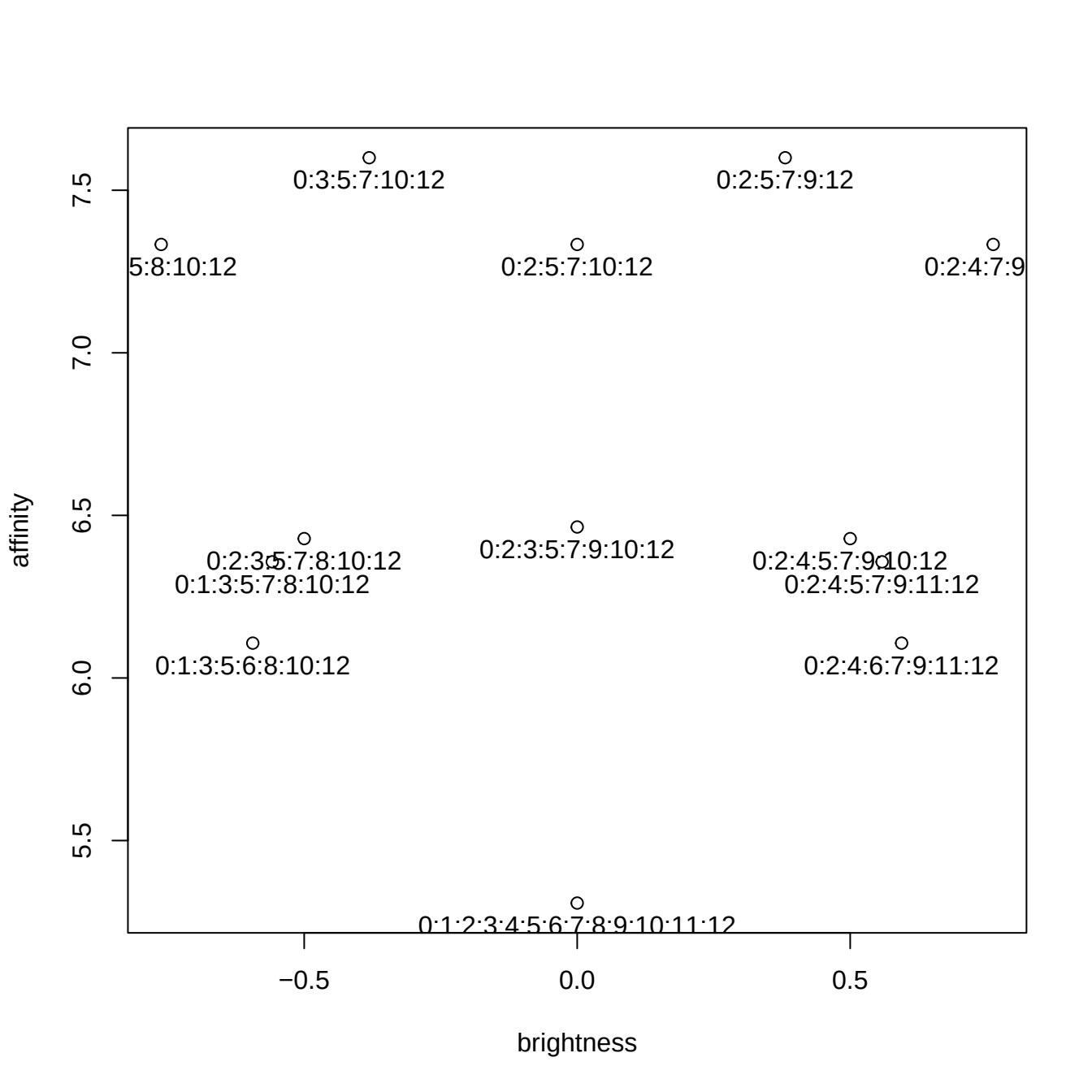
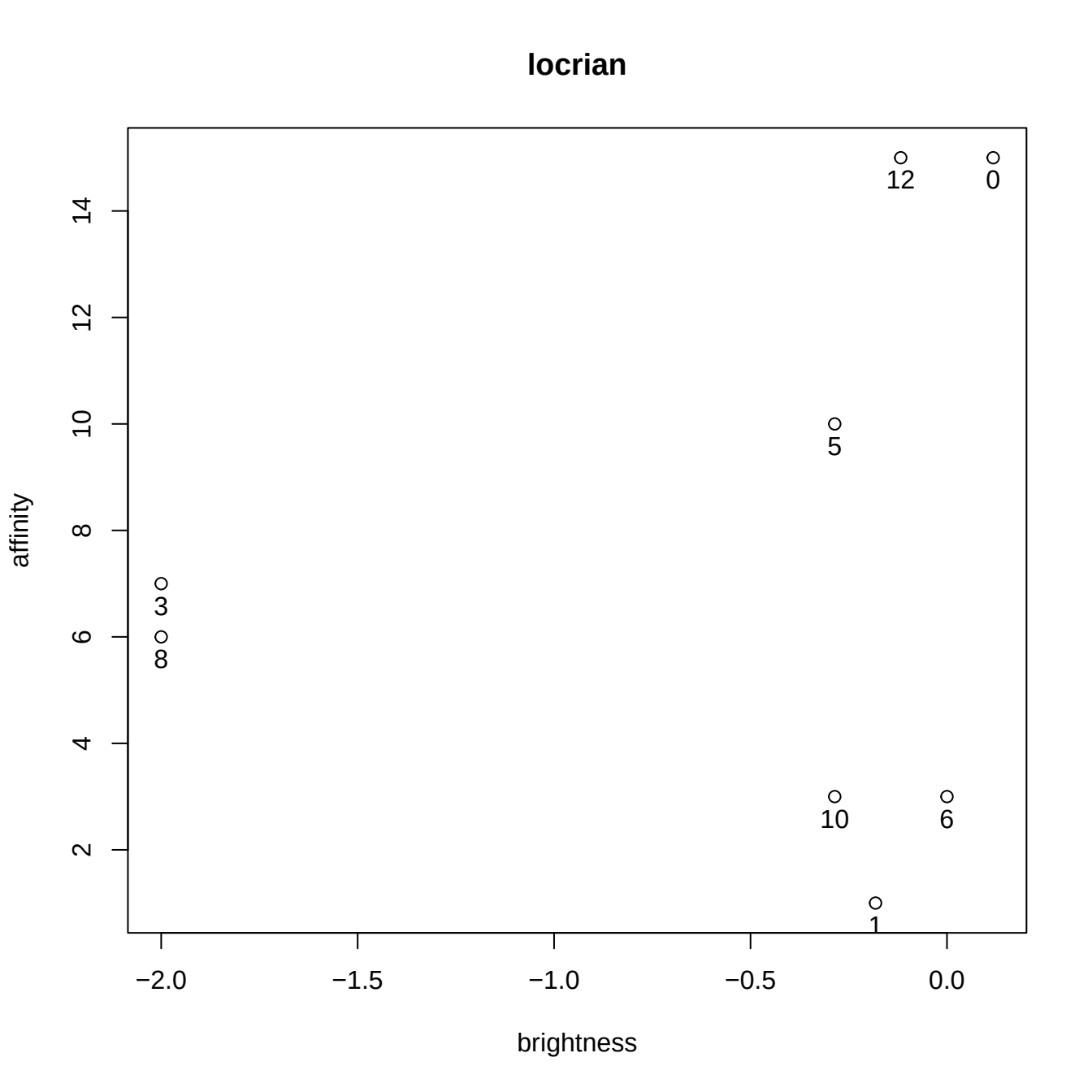

affinity.0.tonic()
0
5
10
15
0
5
10
15
affinity.0.octave()

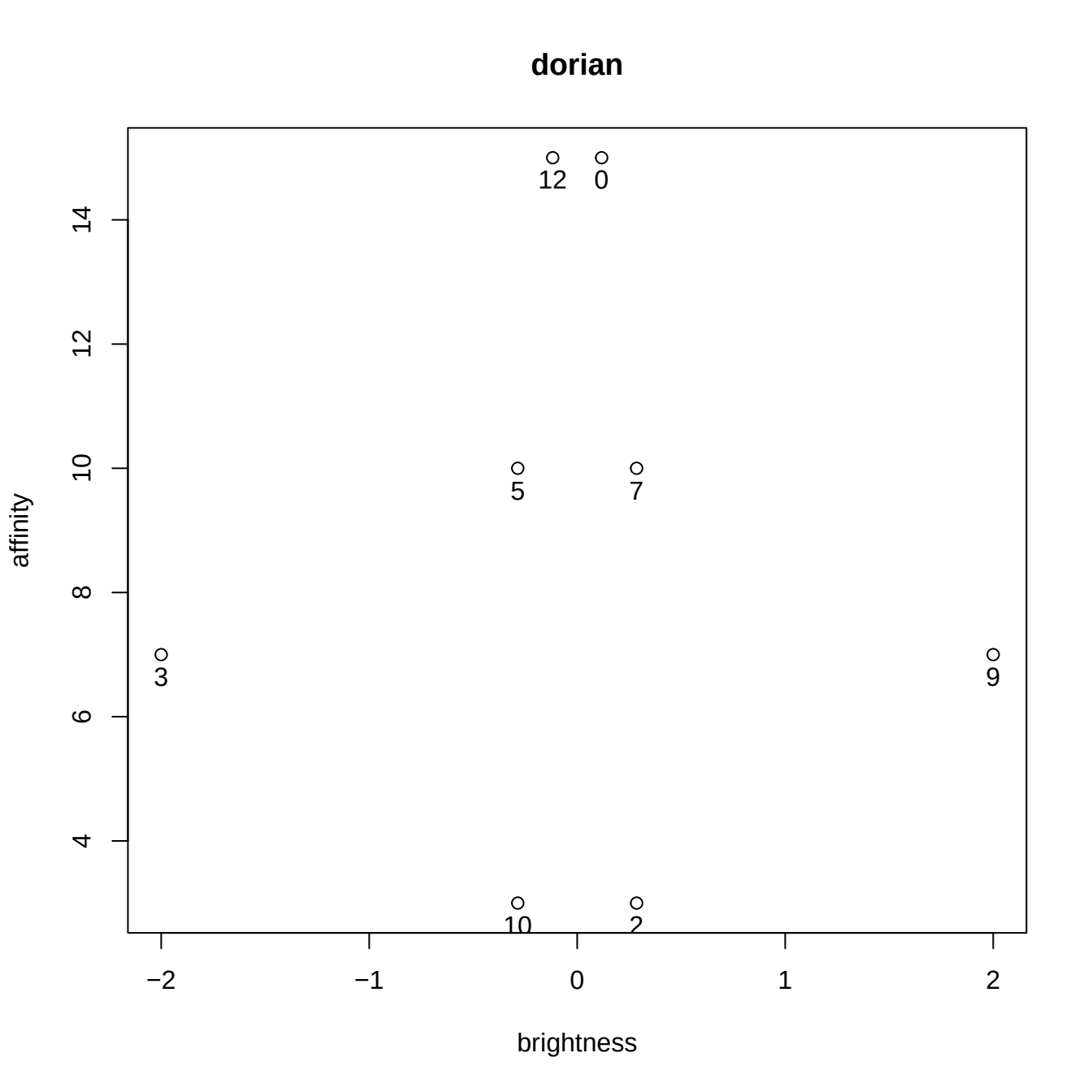

affinity
brightness
15
10
5
0
−2
−1
0
1
2
0
−12
−7
−5
−9
−4
−3
−8
−2
−6
−10
−11
−1

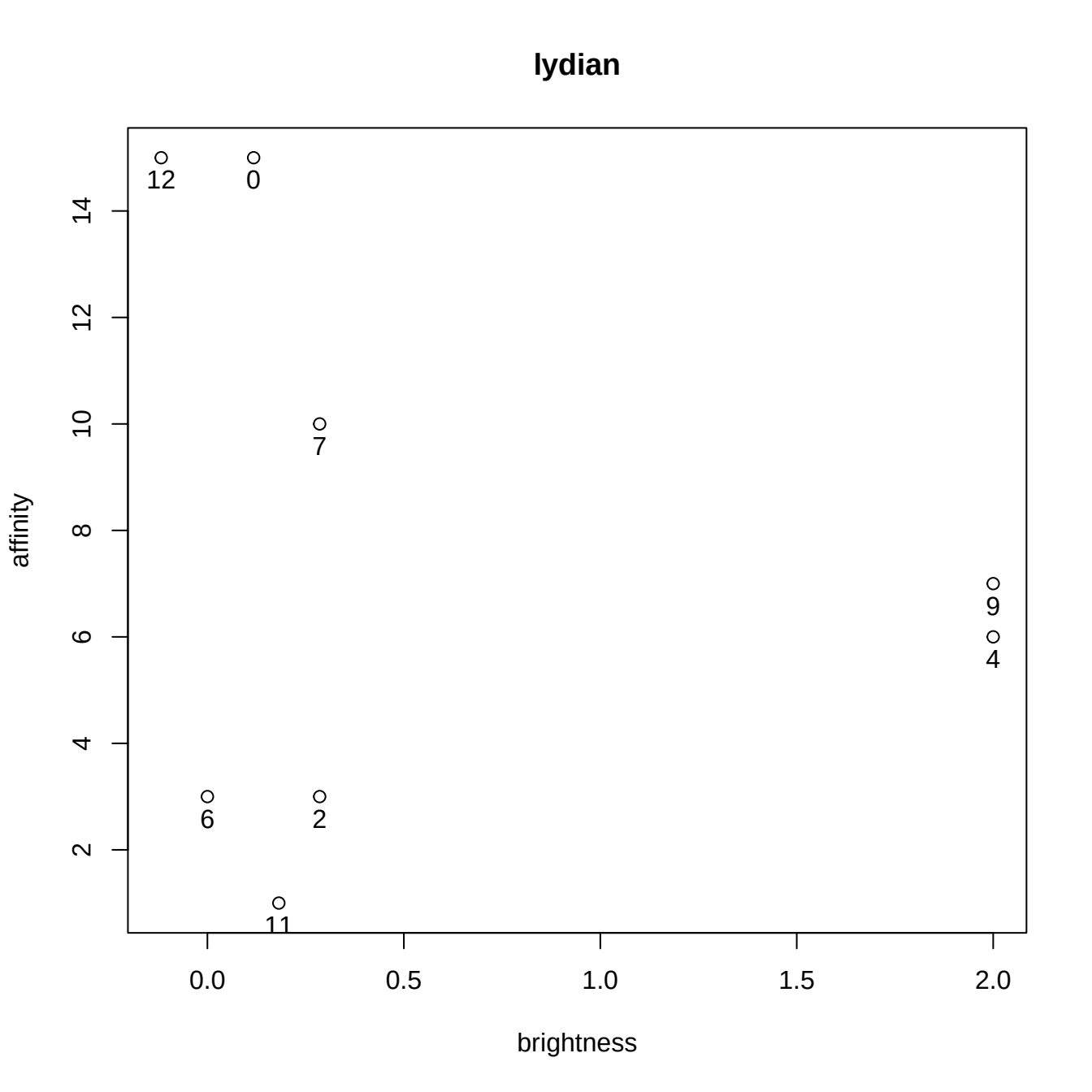

affinity
brightness
2
4
6
8
10
12
14
−2
−1
0
1
2
12
0
5
7
3
8
9
4
10
6
2
1
11

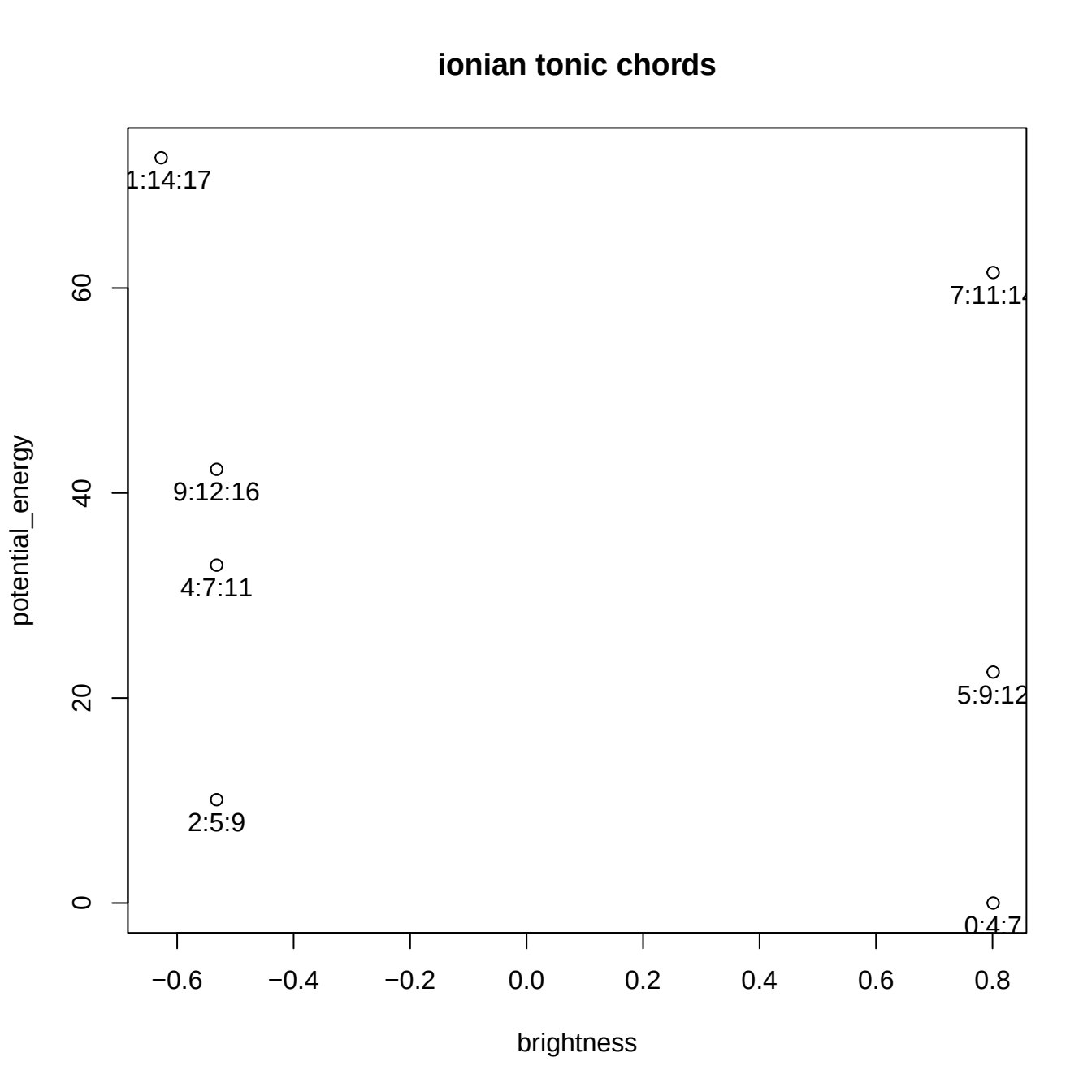

affinity
brightness
0
5
10
15
−2
−1
0
1
2
12
24
17
19
15
20
21
16
22
18
14
13
23

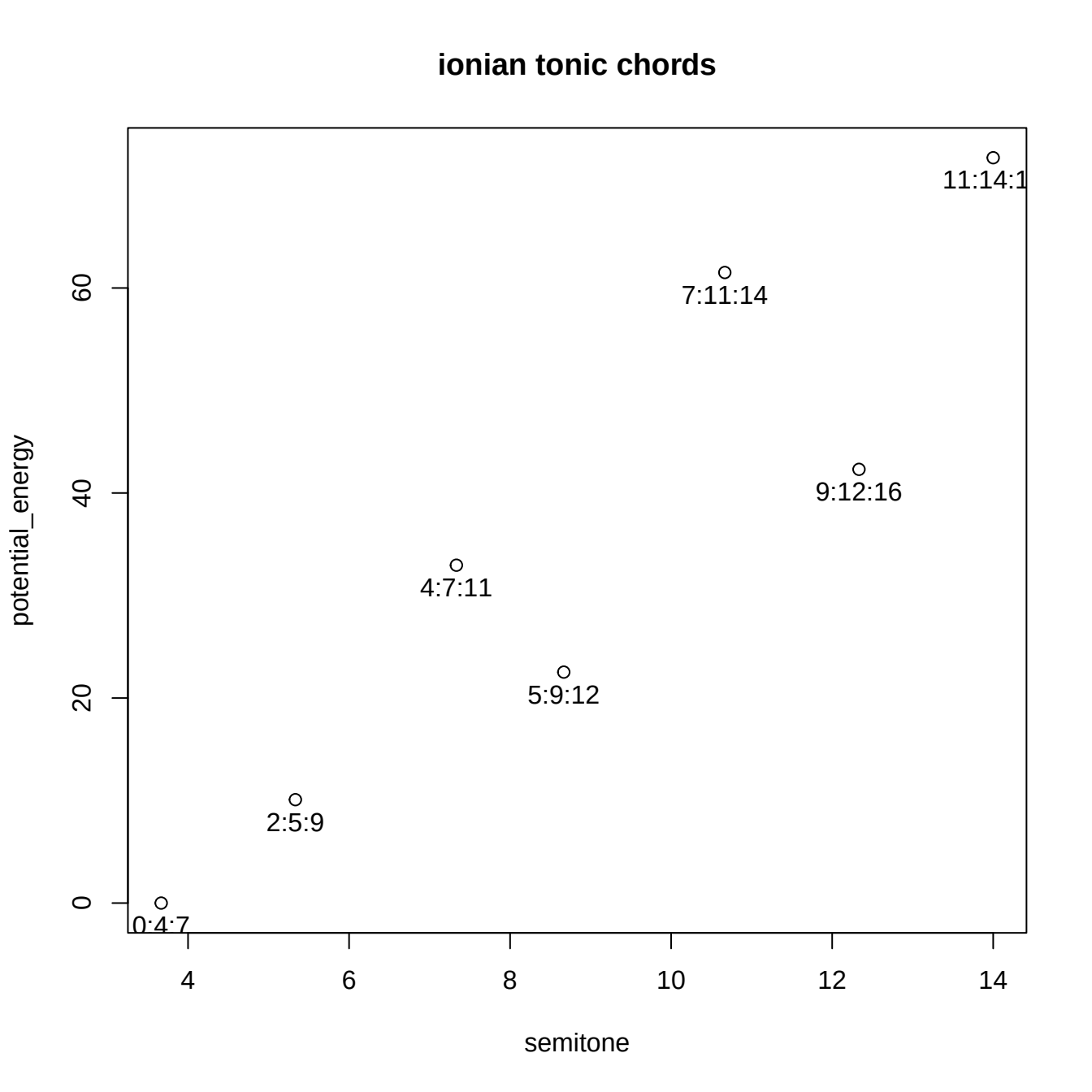

0:3:5:7:10:12
0:2:5:7:9:12
5:8:10:12
0:2:5:7:10:12
0:2:4:7:9
0:2:3:5:7:8:10:12
0:2:3:5:7:9:10:12
0:2:4:5:7:9:10:12
0:1:3:5:7:8:10:12
0:2:4:5:7:9:11:12
0:1:3:5:6:8:10:12
0:2:4:6:7:9:11:12
0:1:2:3:4:5:6:7:8:9:10:11:12
affinity
brightness
7.5
7.0
6.5
6.0
5.5
−0.5
0.0
0.5

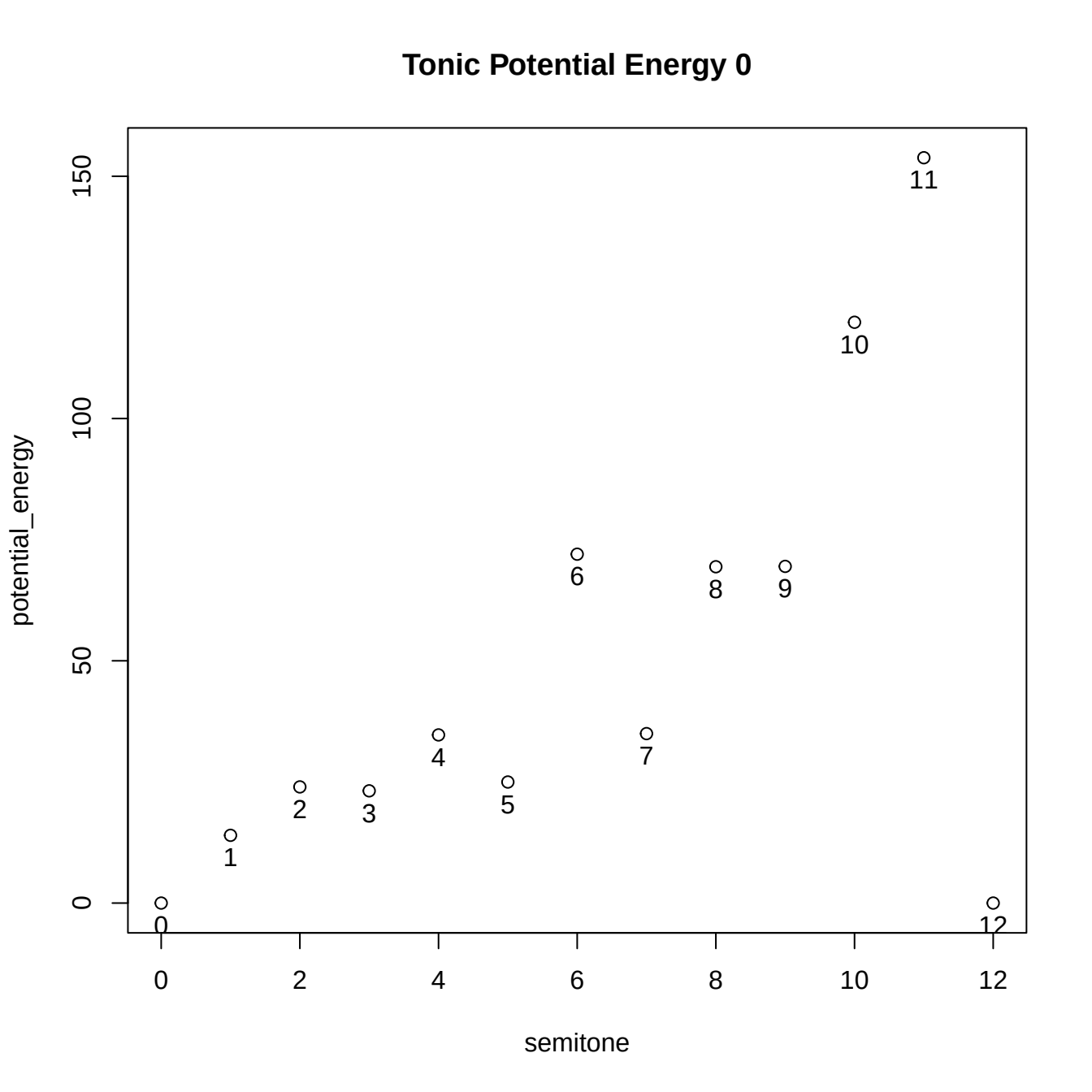

locrian
affinity
brightness
2
4
6
8
10
12
14
−2.0
−1.5
−1.0
−0.5
0.0
12
0
5
3
8
10
6
1

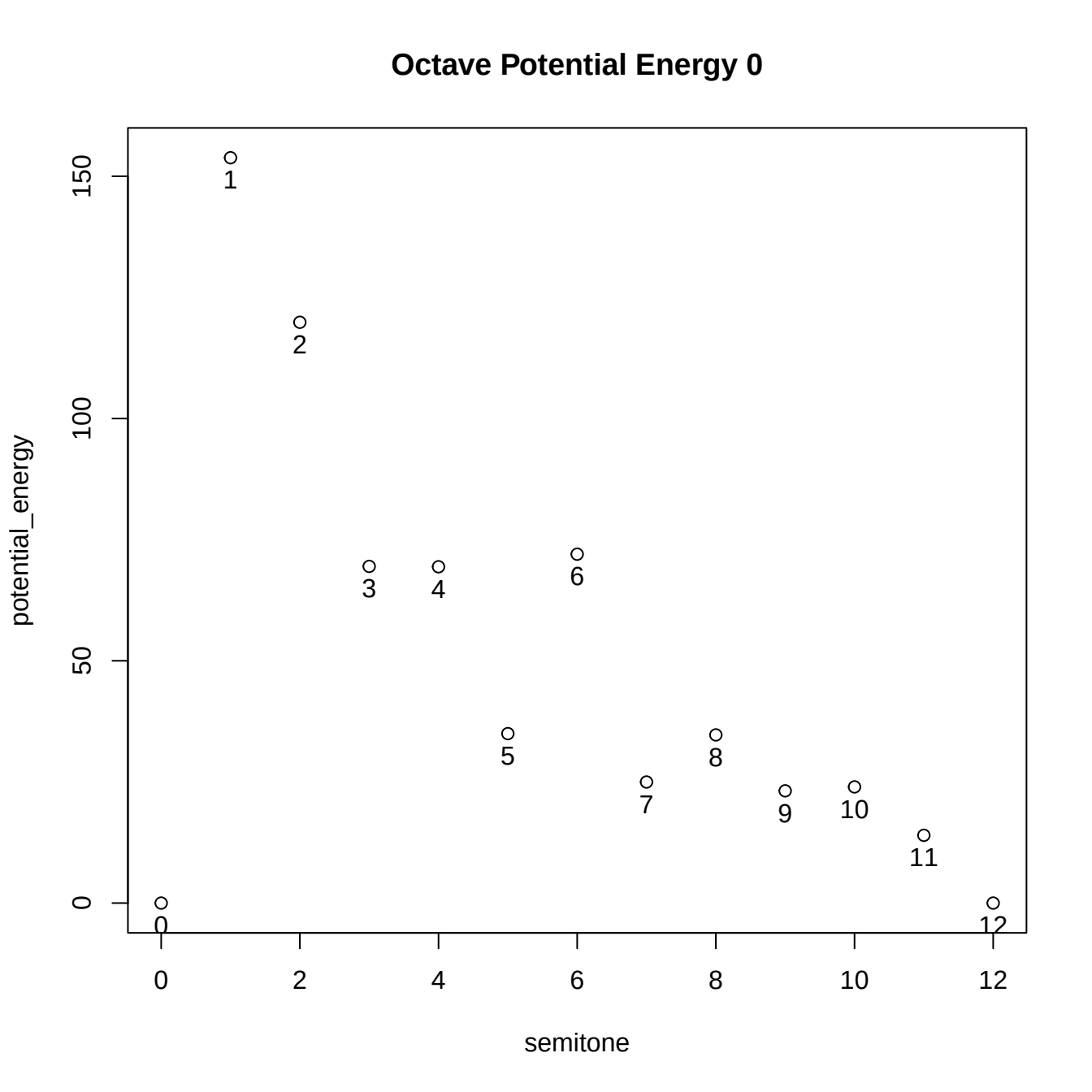

dorian
affinity
brightness
14
12
10
8
6
4
−2
−1
0
1
2
12
0
5
7
3
9
10
2

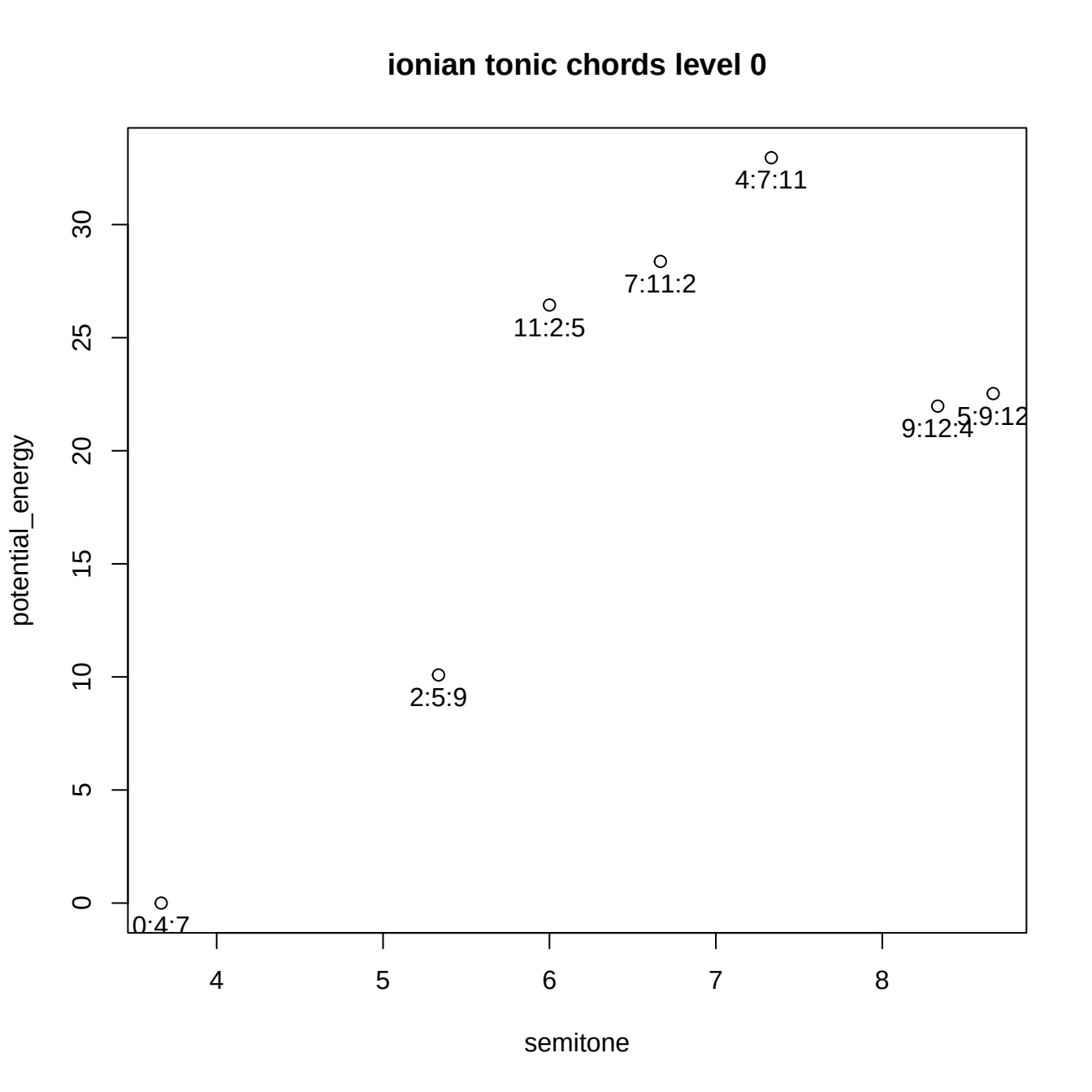

lydian
affinity
brightness
2
4
6
8
10
12
14
0.0
0.5
1.0
1.5
2.0
12
0
7
6
2
11
9
4

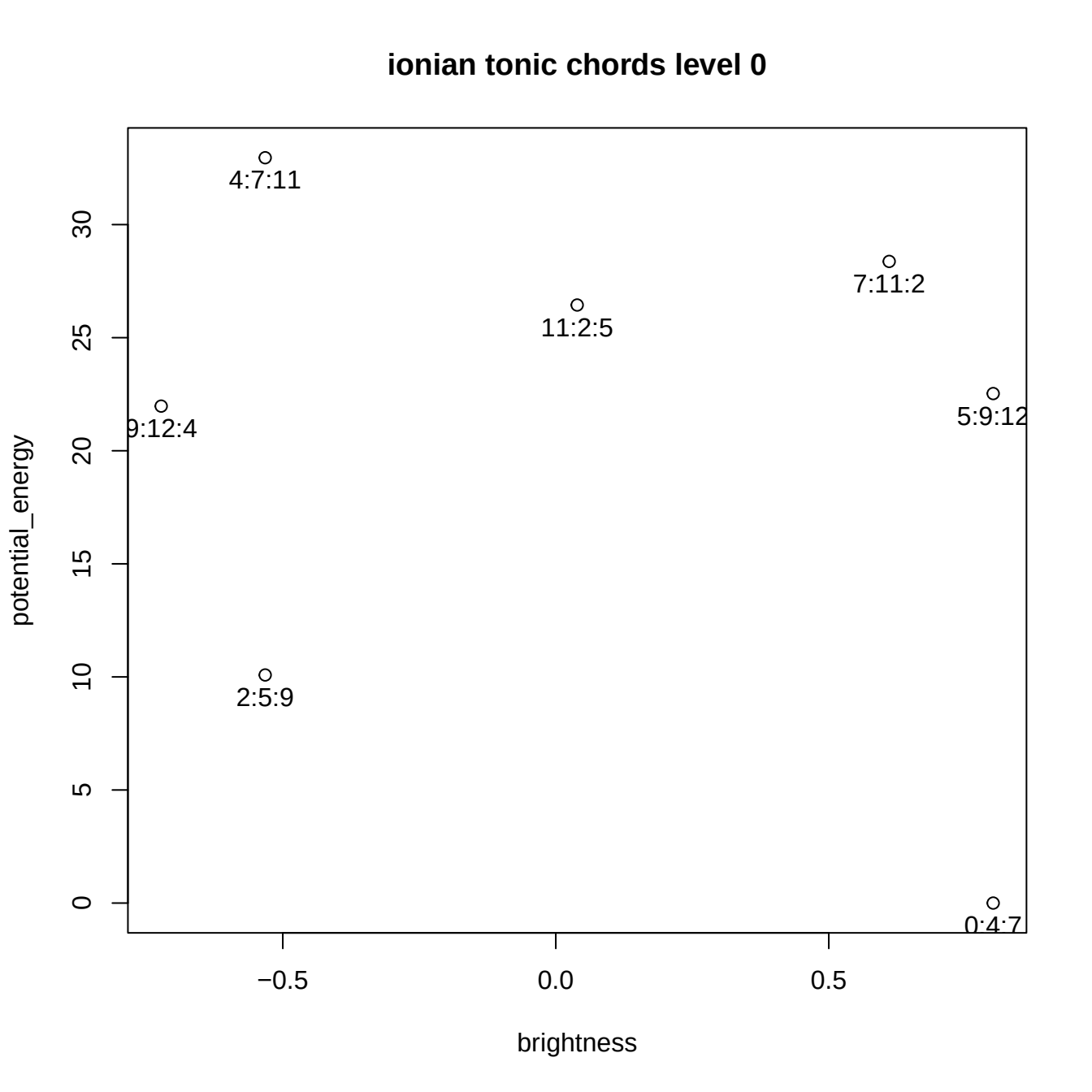

ionian tonic chords
potential_energy
brightness
0
20
40
60
−0.6
−0.4
−0.2
0.0
0.2
0.4
0.6
0.8
1:14:17
9:12:16
4:7:11
2:5:9
7:11:1
5:9:12
0:4:7

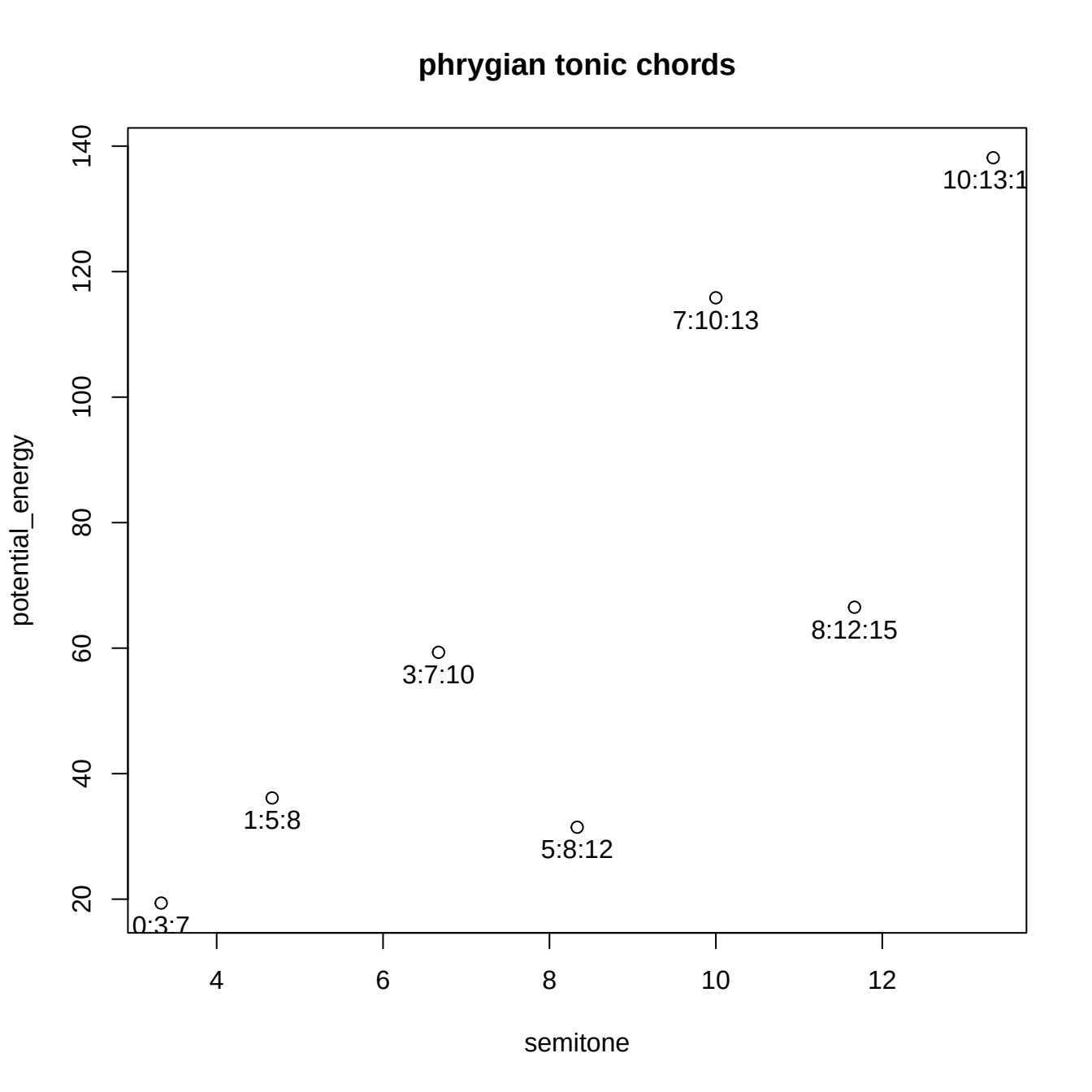

ionian tonic chords
potential_energy
0
20
40
60
semitone
4
6
8
10
12
14
0:4:7
2:5:9
4:7:11
5:9:12
7:11:14
9:12:16
11:14:1

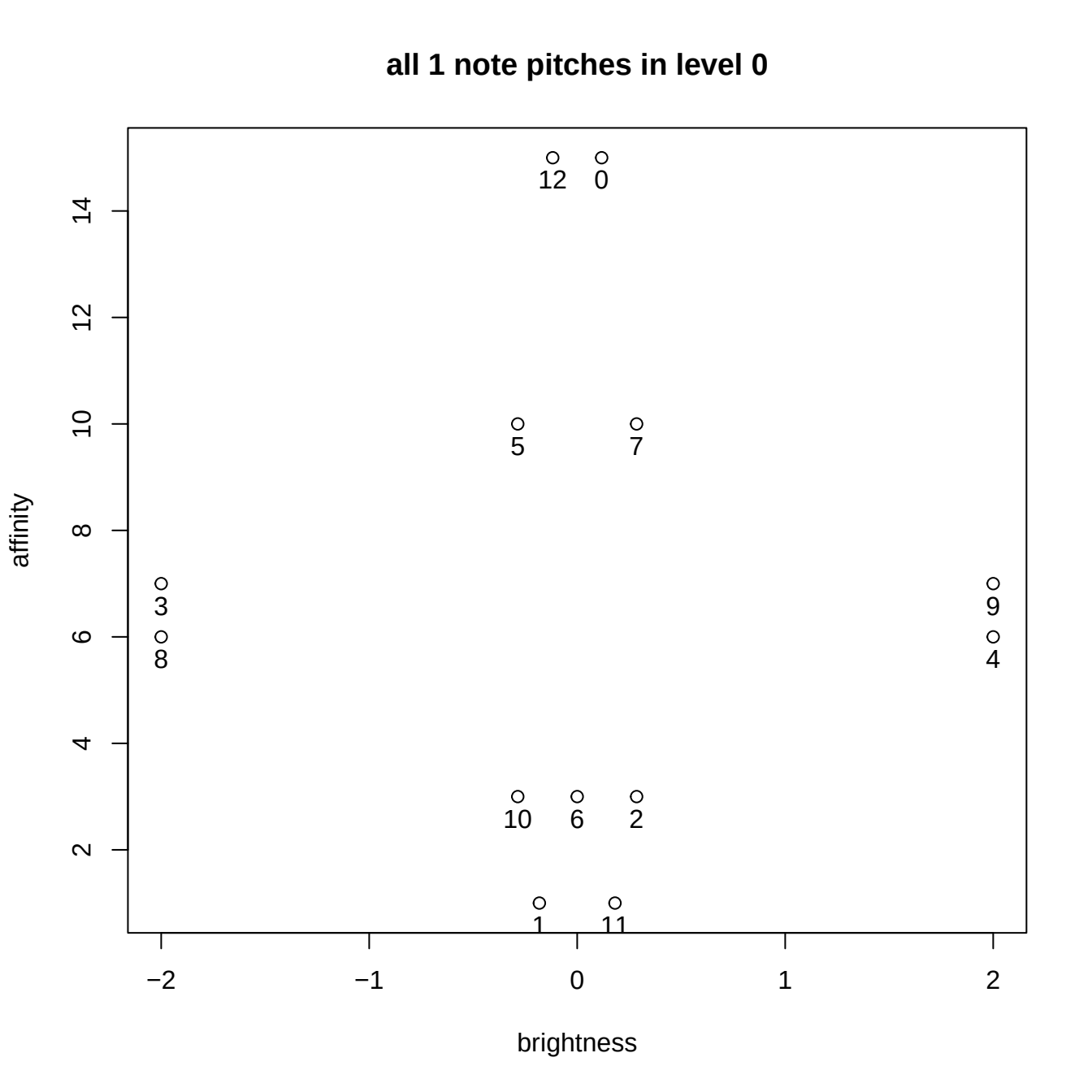

Tonic Potential Energy 0
potential_energy
0
50
100
150
0
2
4
6
8
10
12
semitone
0
1
2
3
4
5
6
7
8
9
10
11
12

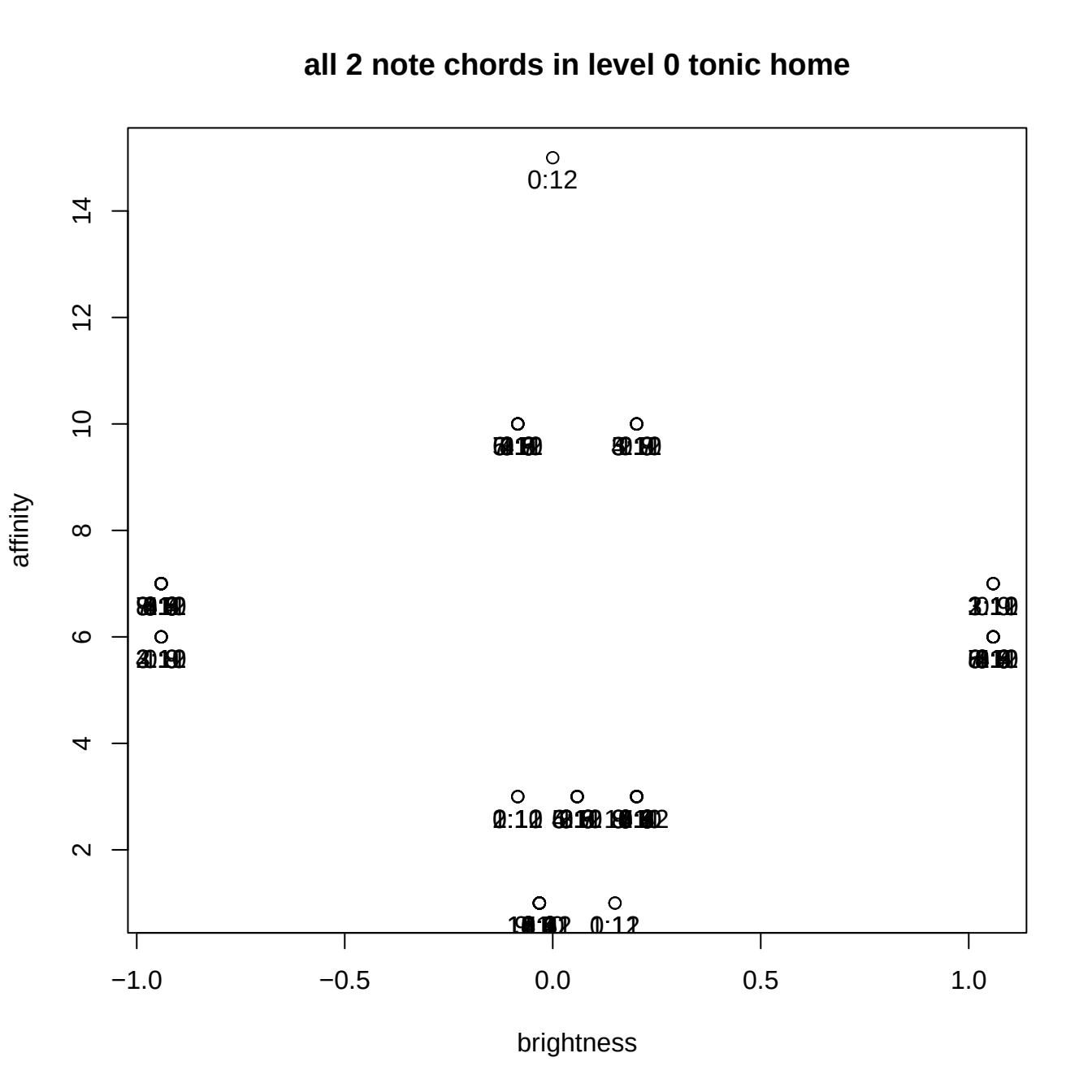

Octave Potential Energy 0
potential_energy
0
50
100
150
0
2
4
6
8
10
12
semitone
0
1
2
3
4
5
6
7
8
9
10
11
12

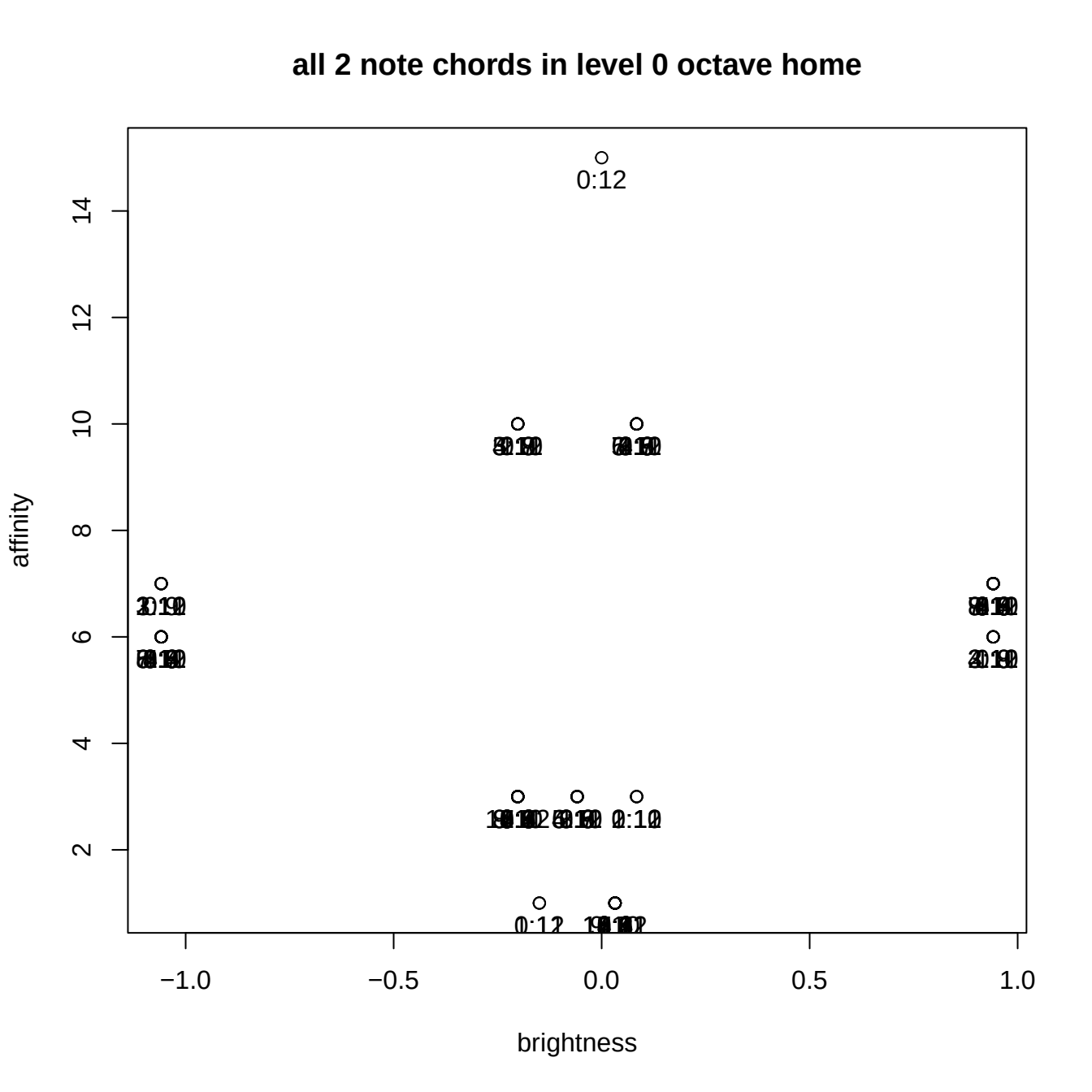

ionian tonic chords level 0
potential_energy
semitone
0
5
10
15
20
25
30
4
5
6
7
8
0:4:7
2:5:9
11:2:5
7:11:2
4:7:11
9:12:4
5:9:12

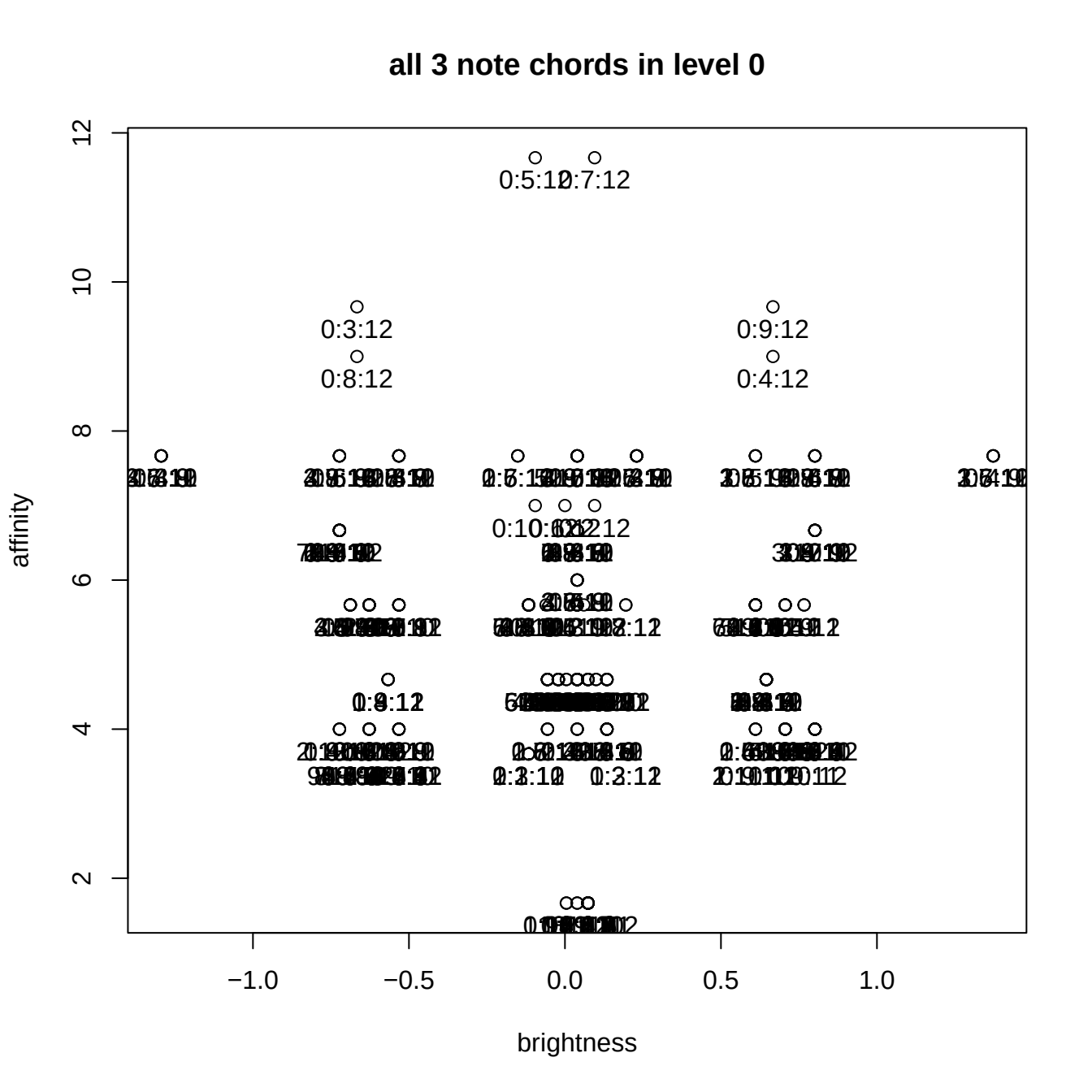

ionian tonic chords level 0
potential_energy
brightness
0
5
10
15
20
25
30
−0.5
0.0
0.5
4:7:11
7:11:2
11:2:5
9:12:4
5:9:12
2:5:9
0:4:7

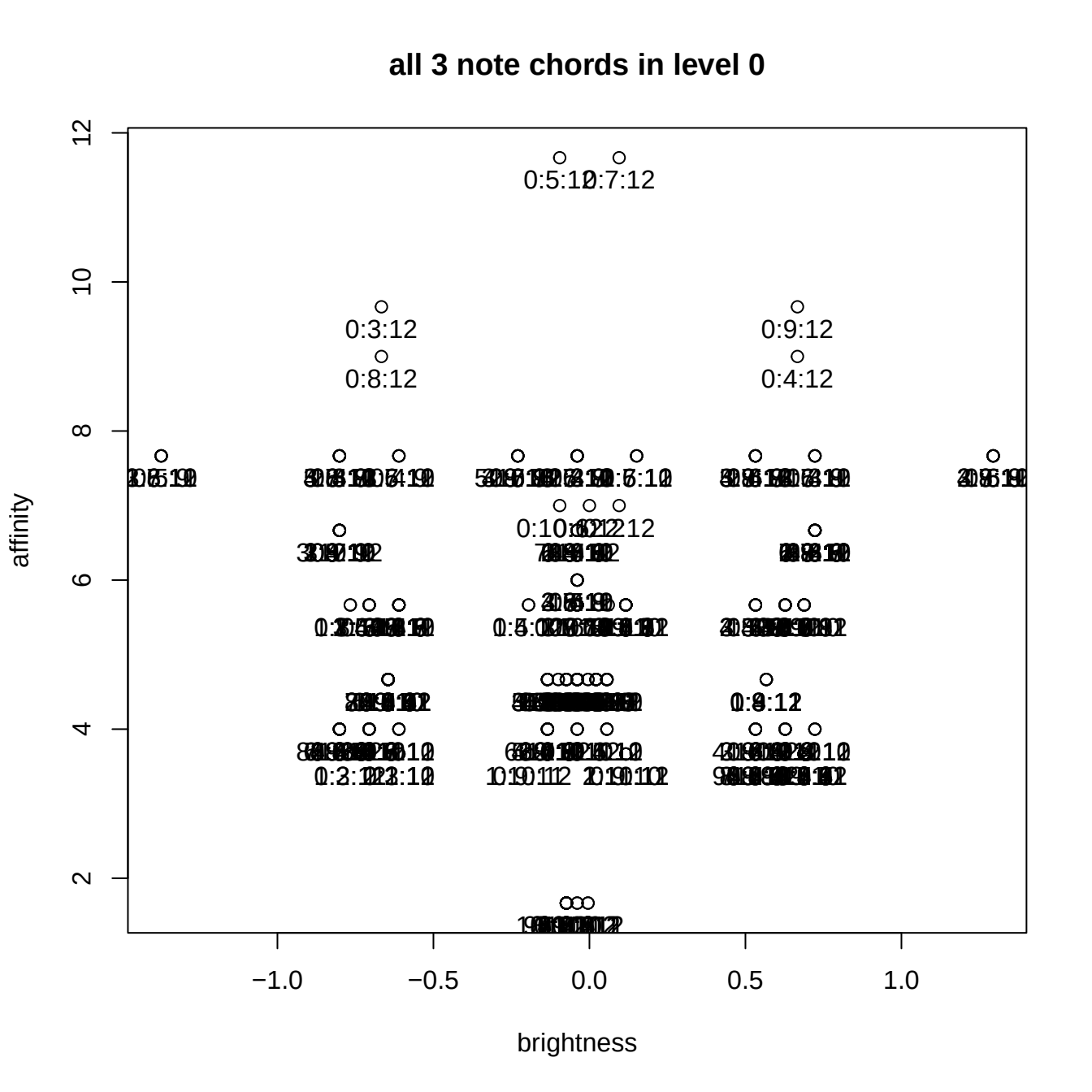

phrygian tonic chords
potential_energy
semitone
20
40
60
80
100
120
140
4
6
8
10
12
0:3:7
1:5:8
3:7:10
5:8:12
7:10:13
8:12:15
10:13:1

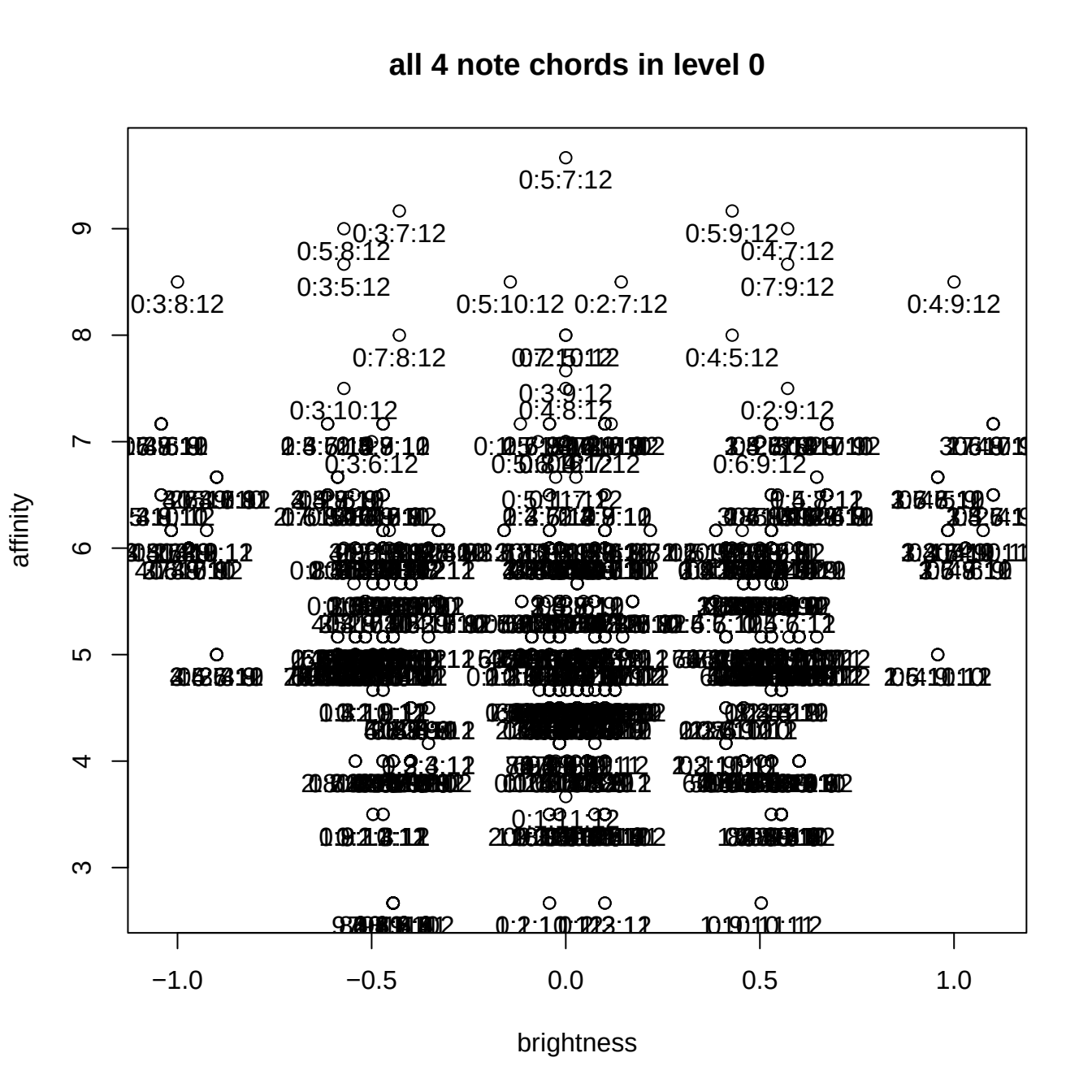

all 1 note pitches in level 0
affinity
brightness
2
4
6
8
10
12
14
−2
−1
0
1
2
12
0
5
7
3
8
9
4
10
6
2
1
11

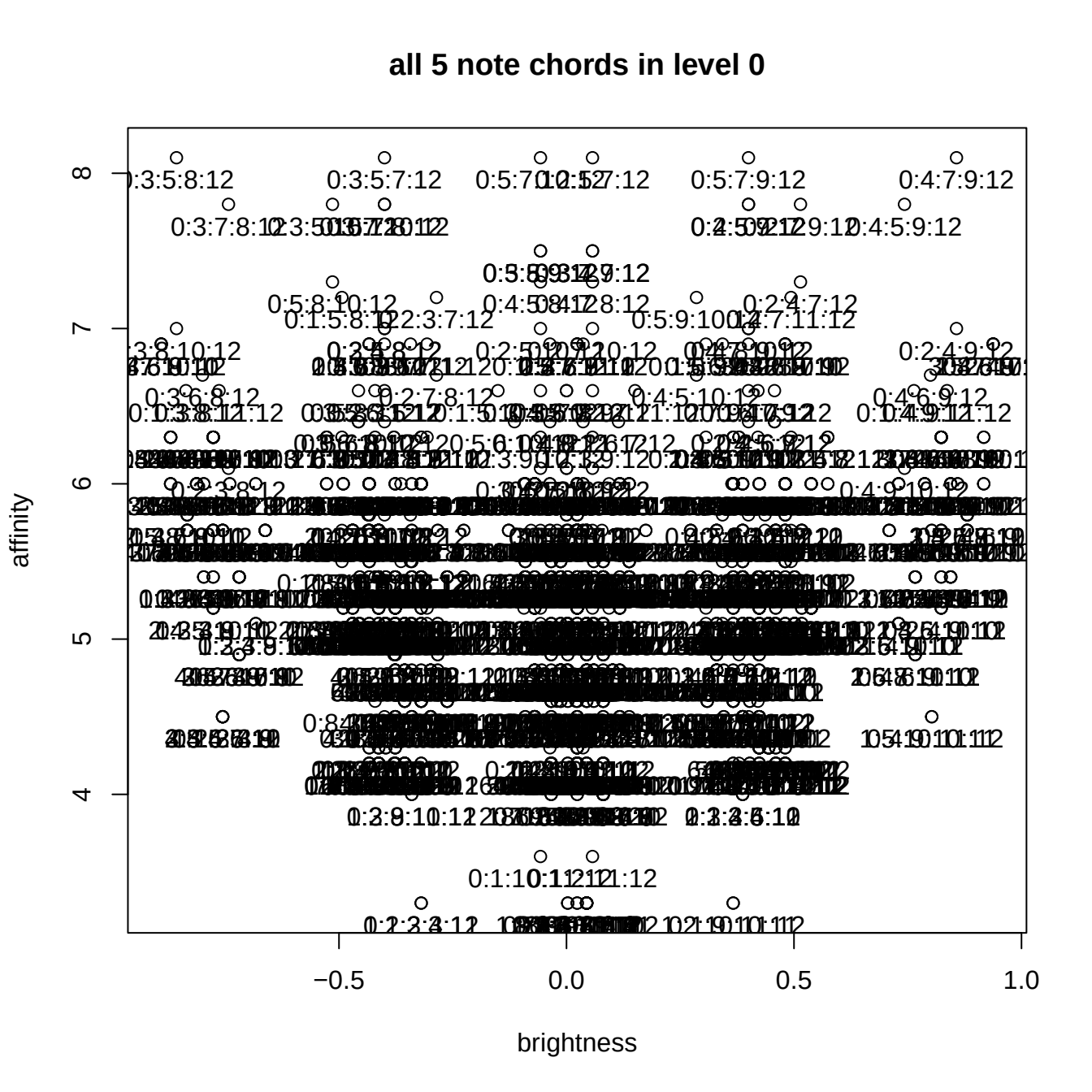

all 2 note chords in level 0 tonic home
affinity
brightness
0:12
2
4
6
8
10
12
14
−1.0
−0.5
0.0
0.5
1.0


all 2 note chords in level 0 octave home
affinity
brightness
0:12
2
4
6
8
10
12
14
−1.0
−0.5
0.0
0.5
1.0


all 3 note chords in level 0
affinity
brightness
12
10
8
6
4
2
−1.0
−0.5
0.0
0.5
1.0
0:5:12
0:7:12
0:3:12
0:8:12
0:9:12
0:4:12


all 3 note chords in level 0
affinity
brightness
12
10
8
6
4
2
−1.0
−0.5
0.0
0.5
1.0
0:5:12
0:7:12
0:3:12
0:8:12
0:9:12
0:4:12


all 4 note chords in level 0
0:5:7:12
0:3:7:12
0:5:9:12
0:5:8:12
0:4:7:12
0:3:5:12
0:7:9:12
0:3:8:12
0:5:10:12
0:2:7:12
0:4:9:12
0:7:8:12
0:4:5:12
0:3:10:12
0:4:8:12
0:2:9:12
0:3:6:12
0:6:9:12
affinity
brightness
−1.0
−0.5
0.0
0.5
1.0
3
4
5
6
7
8
9


all 5 note chords in level 0
affinity
brightness
8
7
6
5
4
−0.5
0.0
0.5
1.0
0:3:5:8:12
0:3:5:7:12
0:5:7:9:12
0:4:7:9:12
0:3:7:8:12
0:4:5:9:12
0:5:8:10:12
0:4:5:8:12
0:2:4:7:12
0:2:4:9:12
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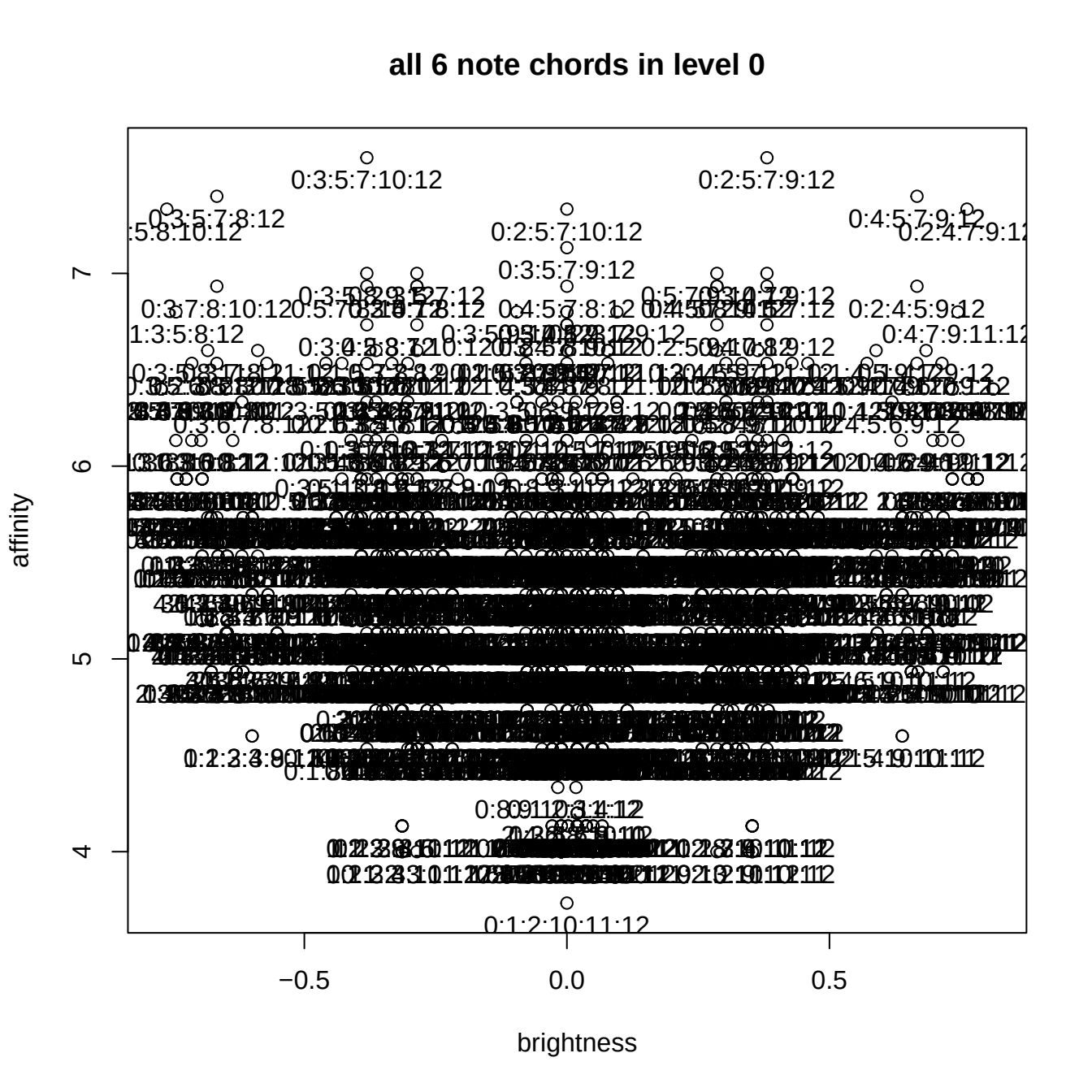
0:4:5:10:12
0:4:6:9:12
0:4:9:10:12
0:1:1:12


all 6 note chords in level 0
affinity
brightness
7
6
5
4
−0.5
0.0
0.5
0:3:5:7:10:12
0:2:5:7:9:12
0:3:5:7:8:12
0:2:5:7:10:12
0:4:5:7:9:12
0:3:5:7:9:12
0:2:4:7:9:12
0:2:4:5:9:12
0:4:7:9:11:12
0:1:2:10:11:12