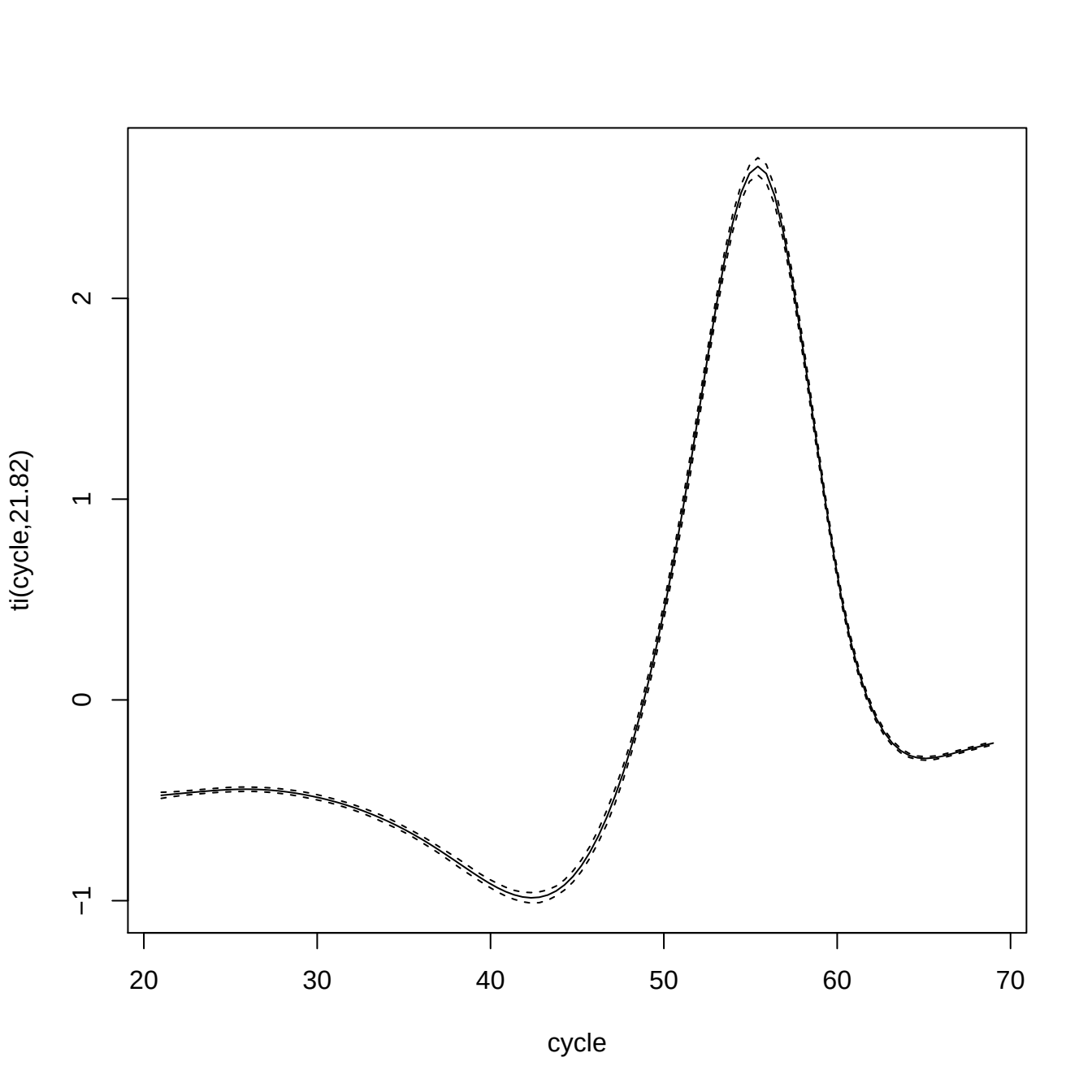
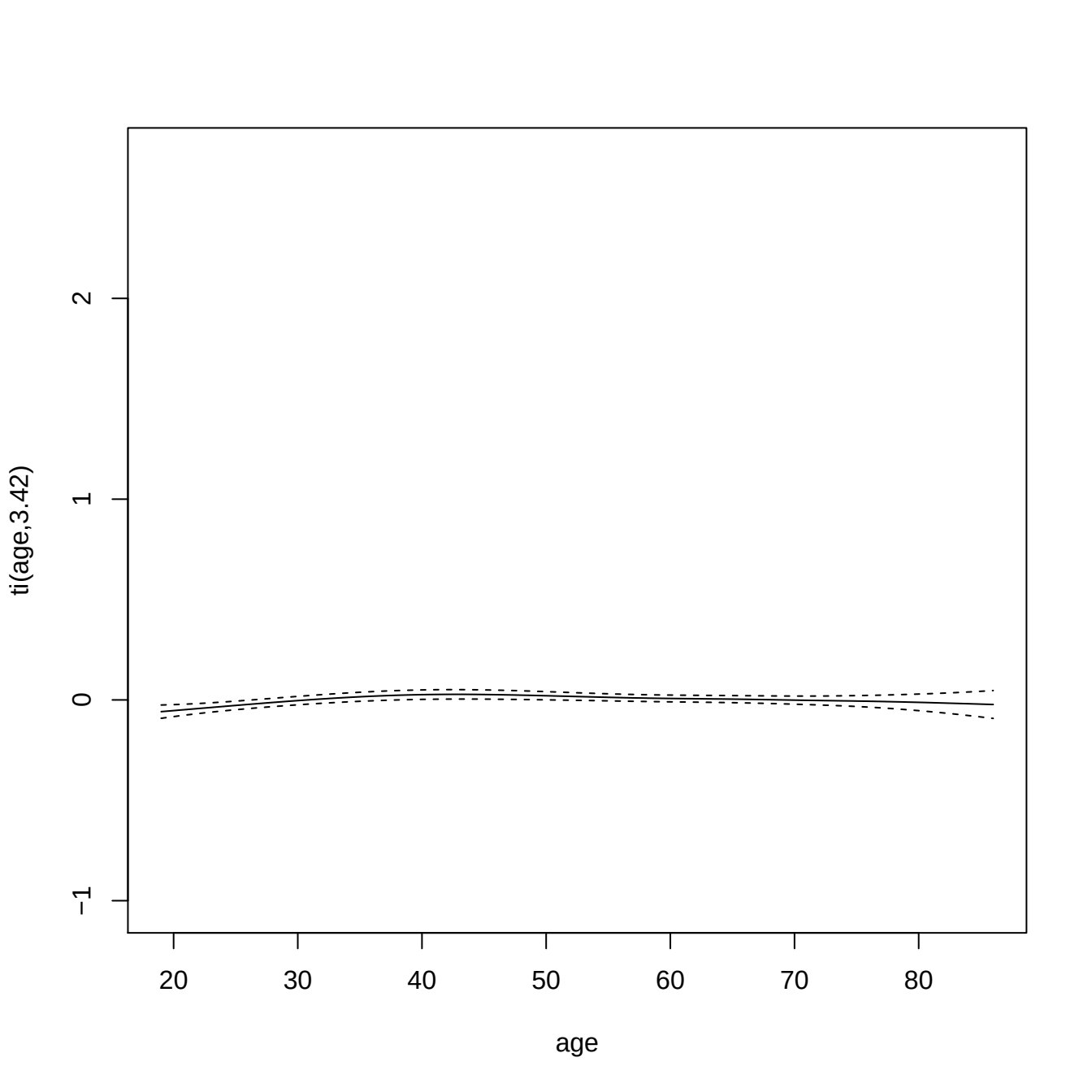
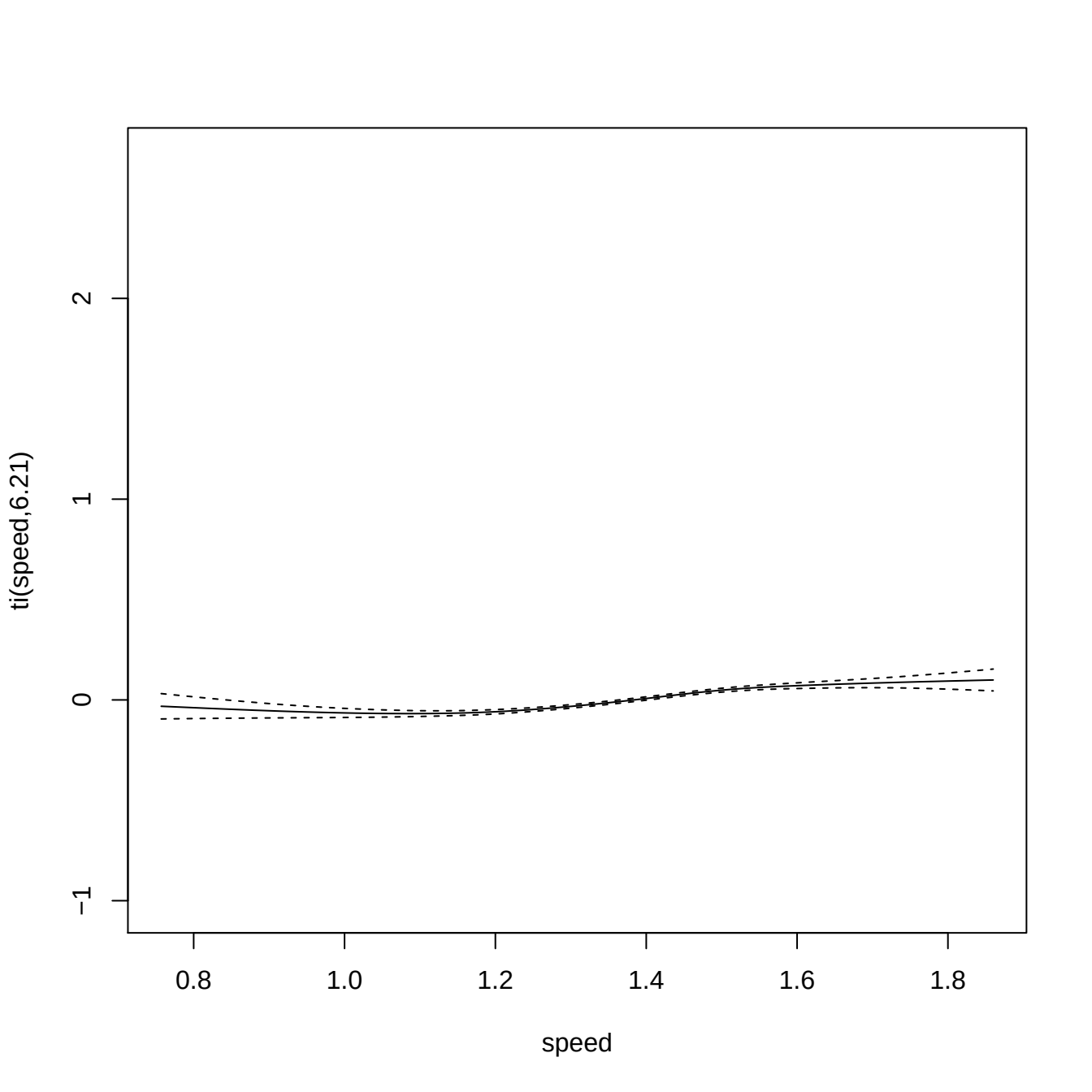
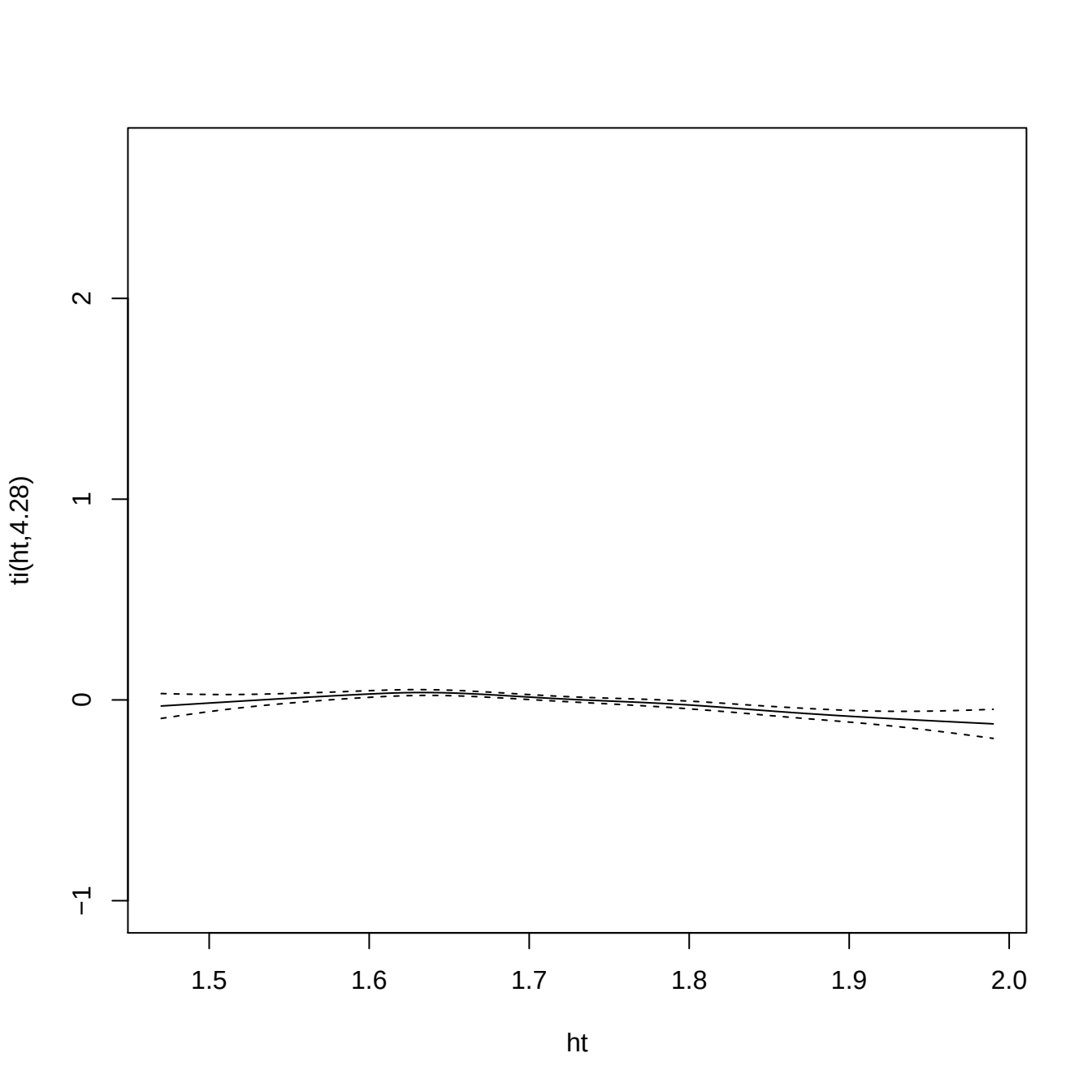
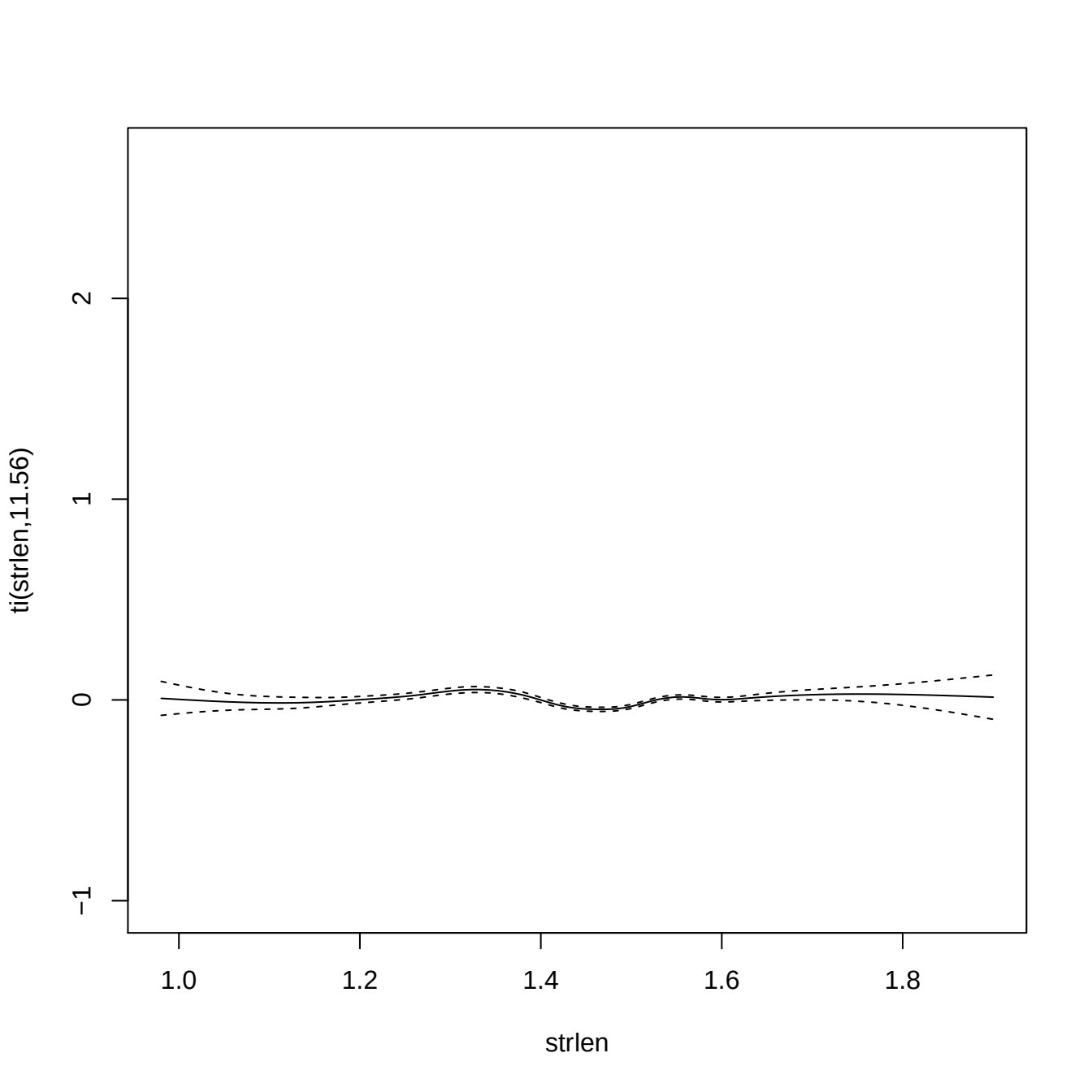
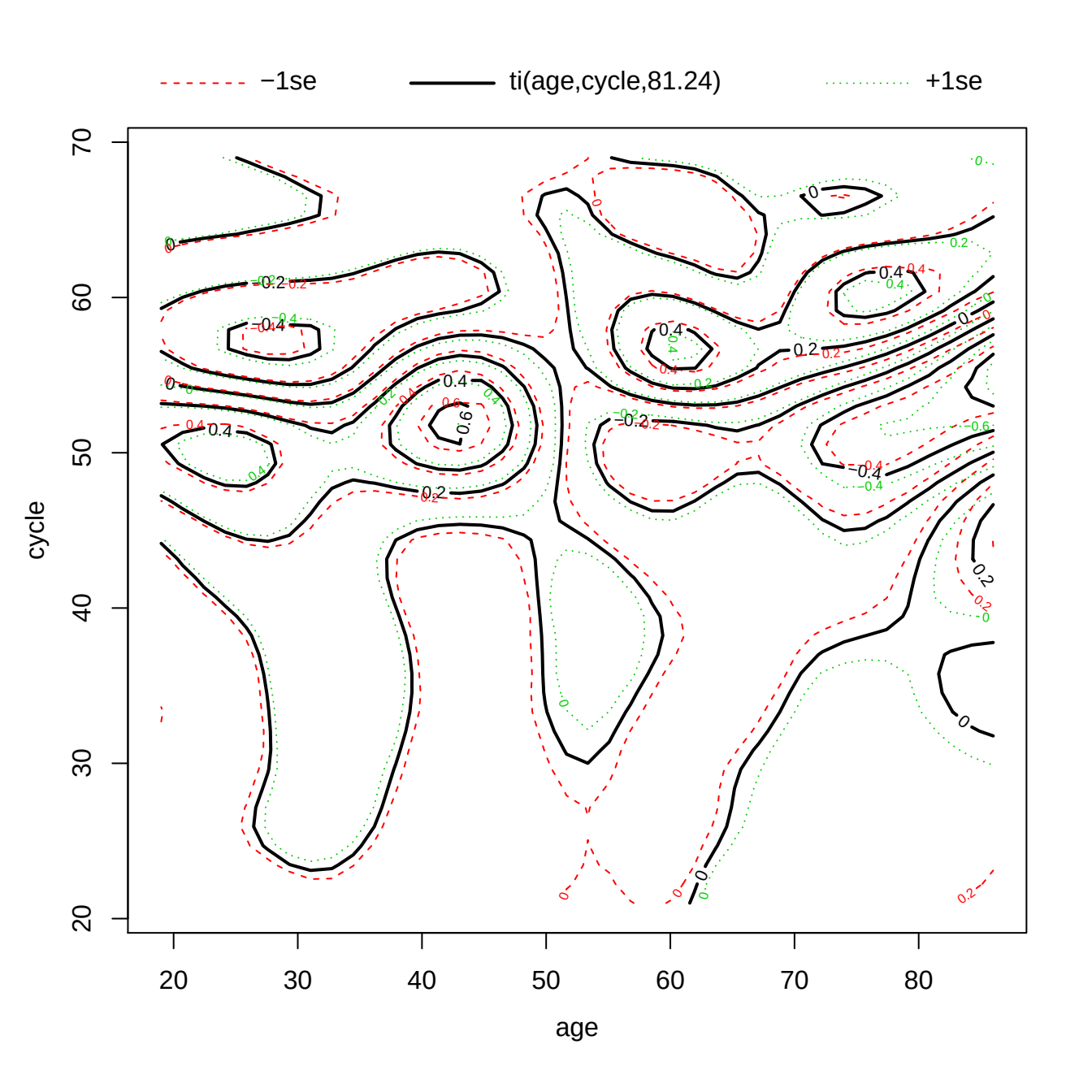

ti(cycle,21.82)
2
1
0
−1
20
30
40
50
60
70
cycle

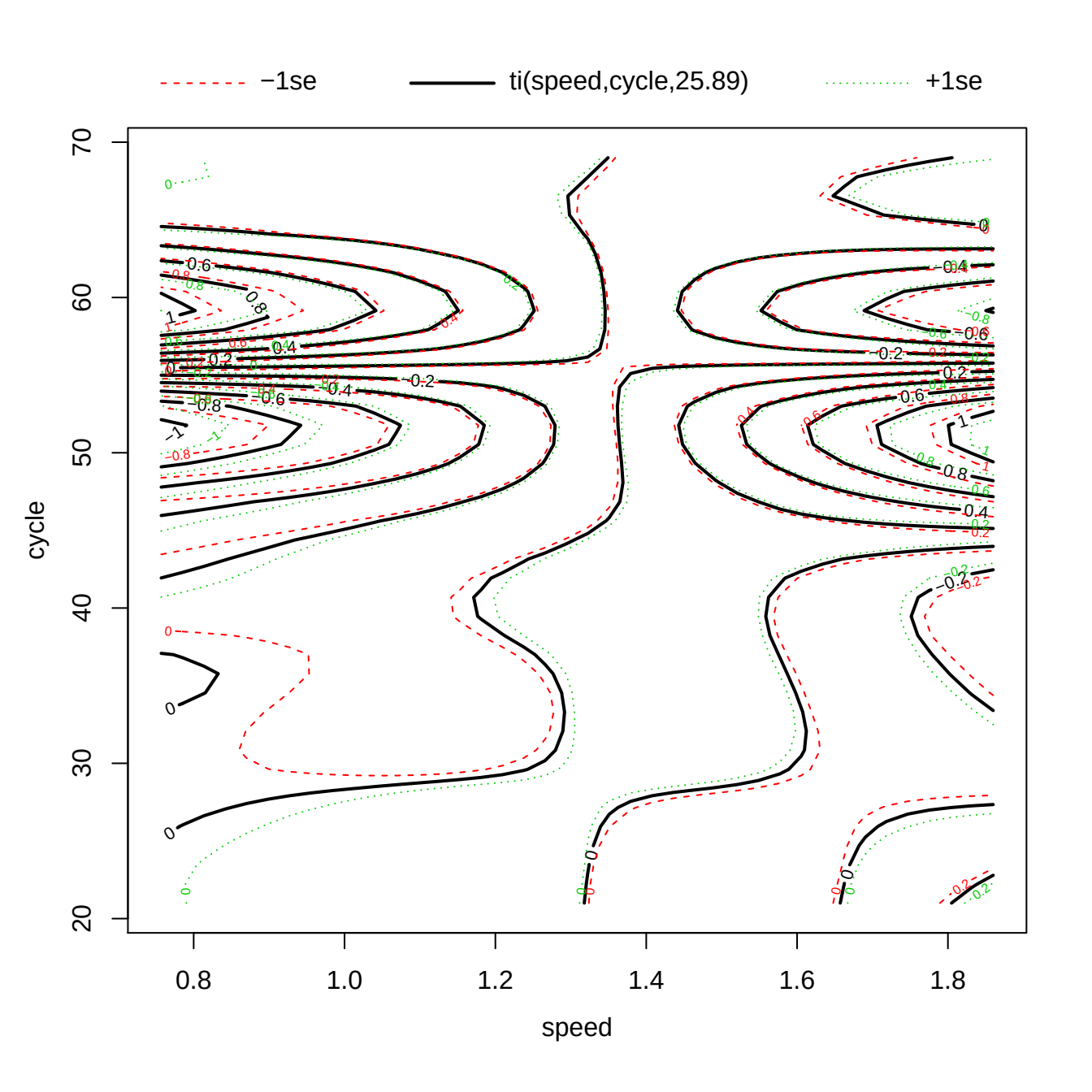

ti(age,3.42)
2
1
0
−1
20
30
40
50
60
70
80
age

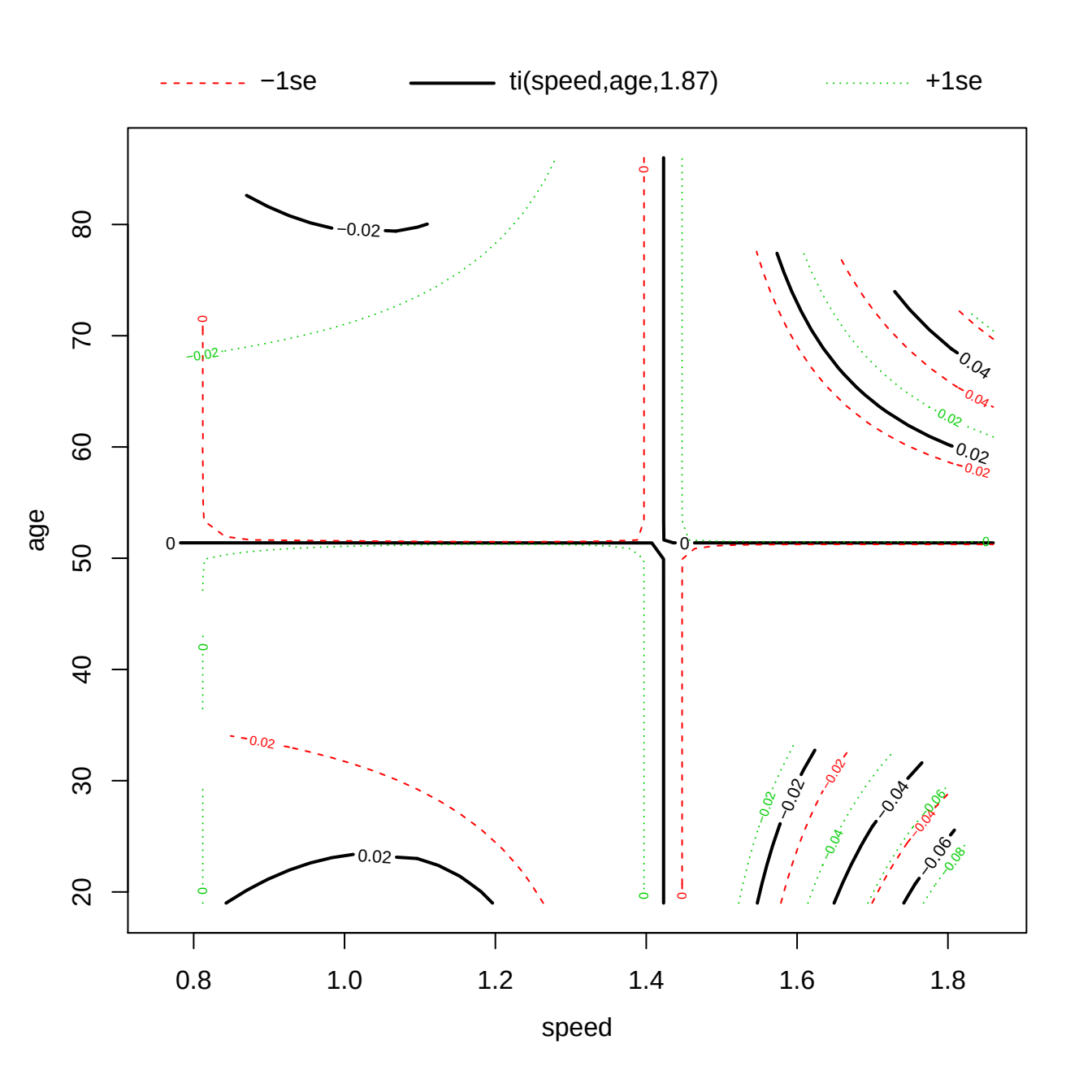

ti(speed,6.21)
2
1
0
−1
0.8
1.0
1.2
1.4
1.6
1.8
speed

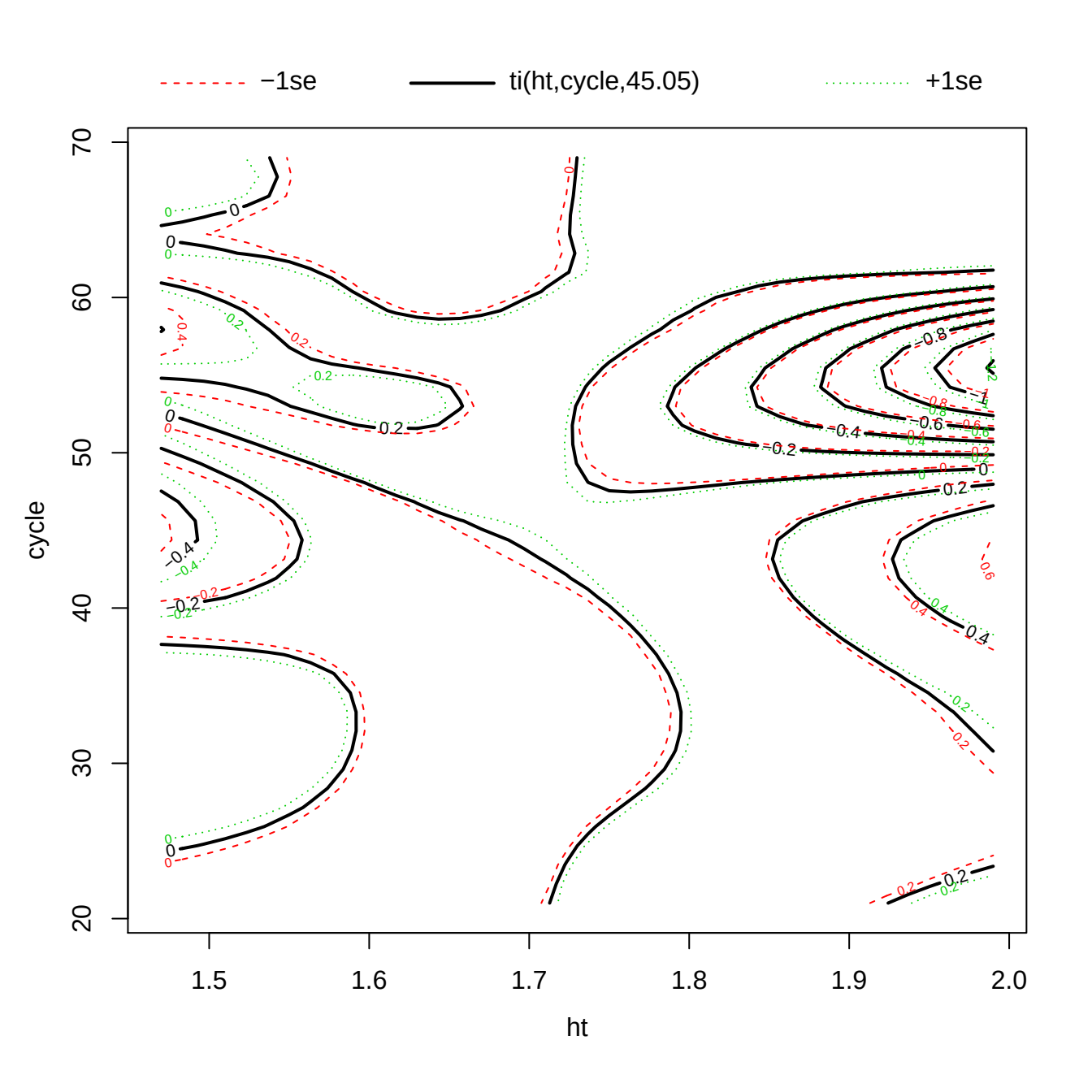

ti(ht,4.28)
2
1
0
−1
1.5
1.6
1.7
1.8
1.9
2.0
ht

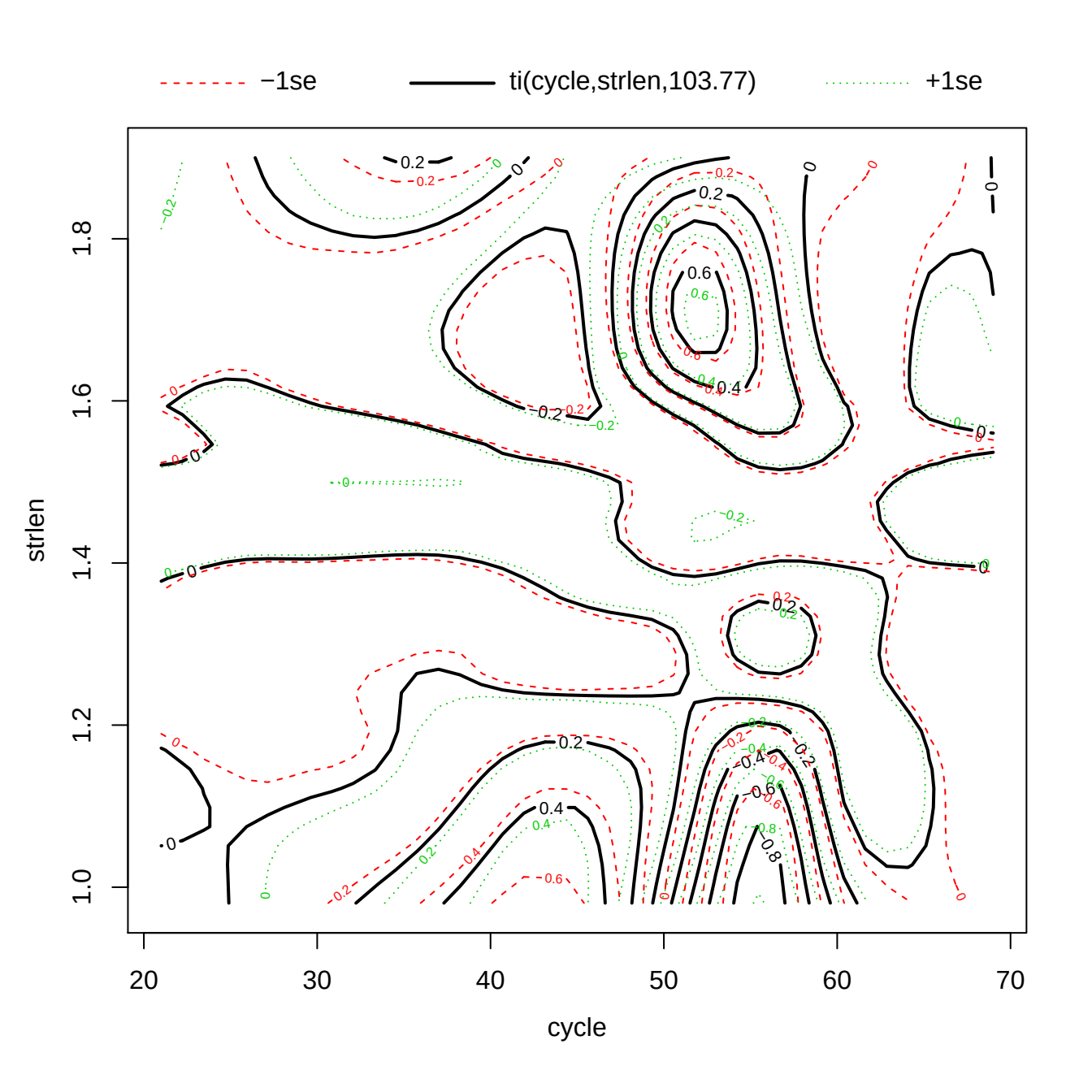

ti(strlen,11.56)
2
1
0
−1
1.0
1.2
1.4
1.6
1.8
strlen

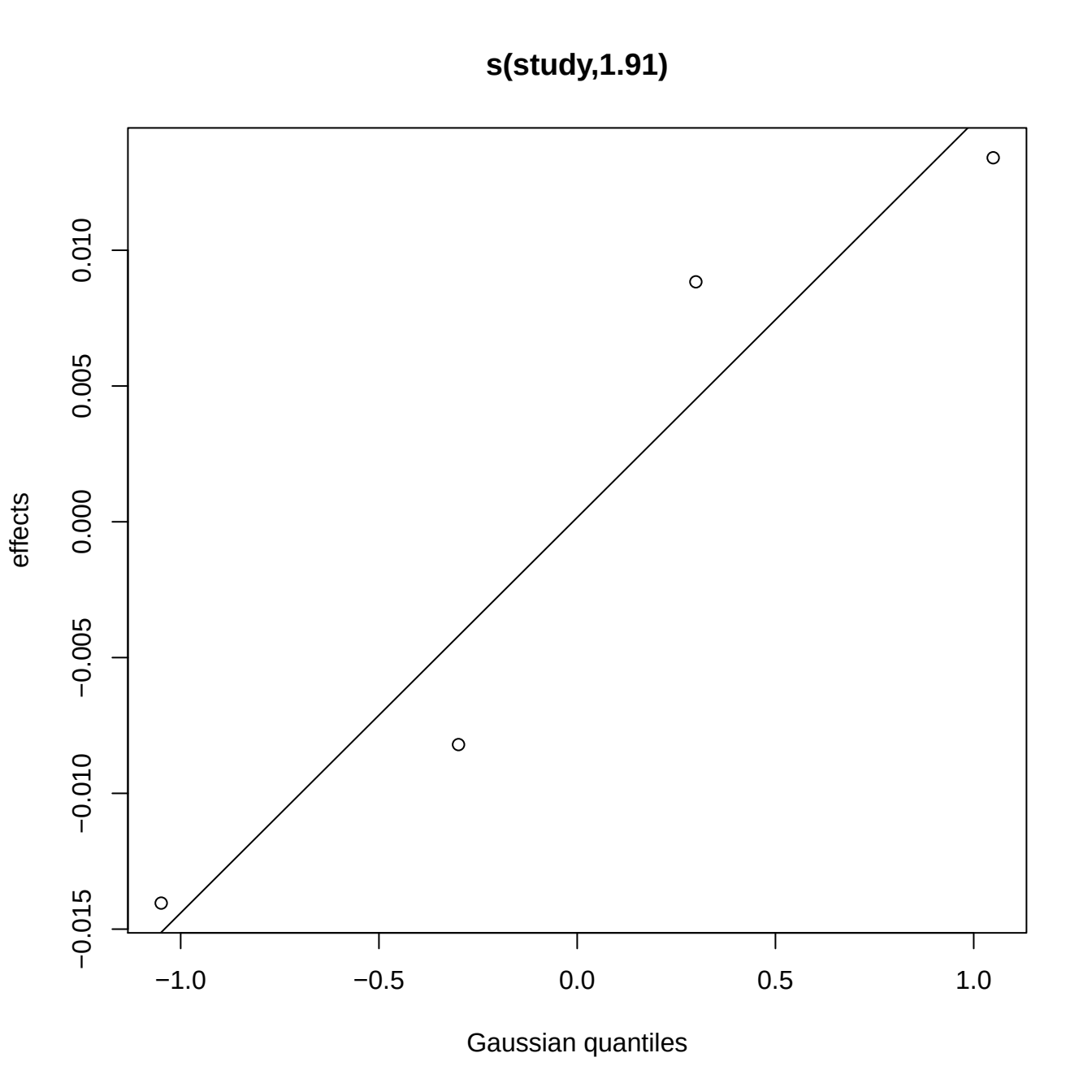

−1se
ti(age,cycle,81.24)
+1se
cycle
age
20
30
40
50
60
70
80

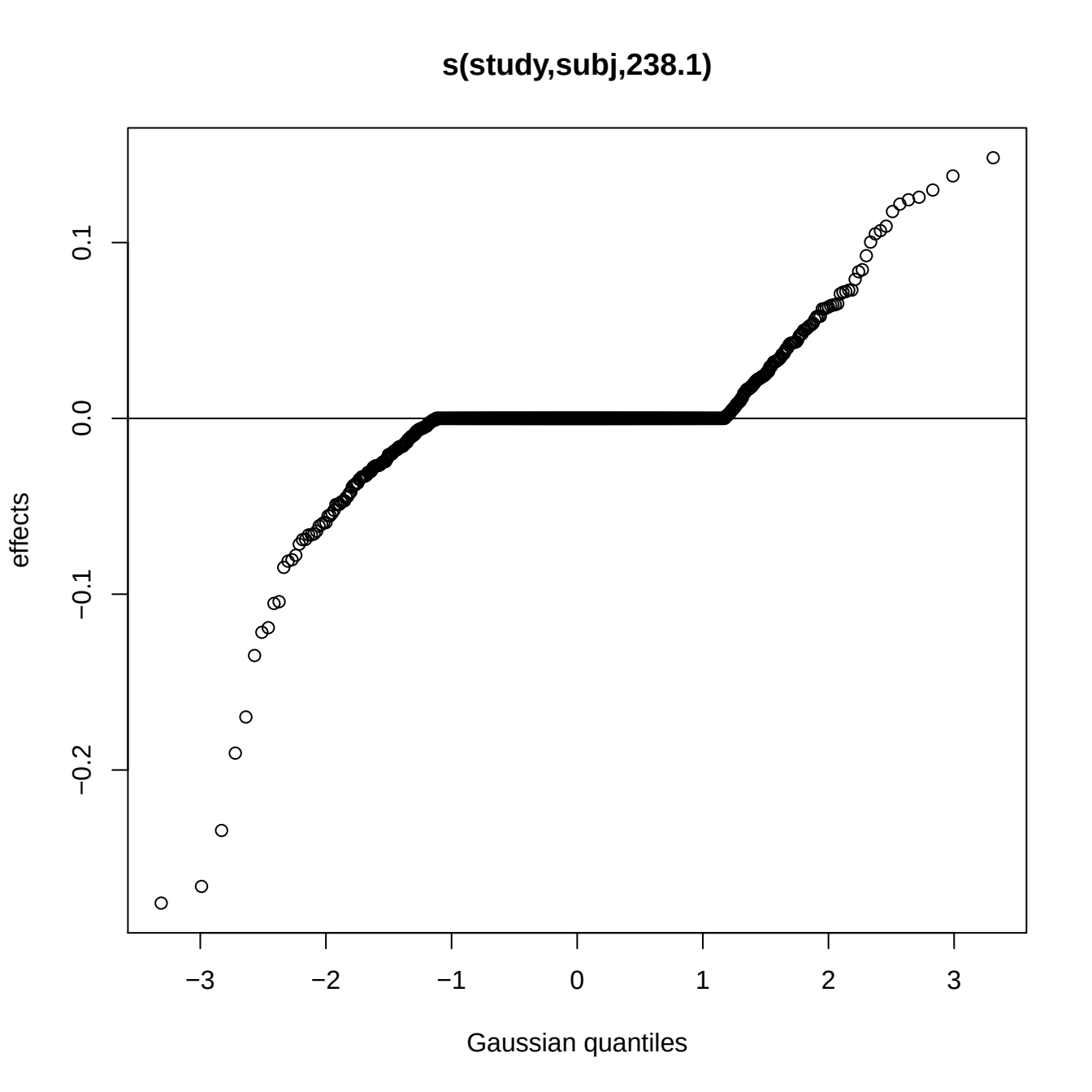

−1se
ti(speed,cycle,25.89)
+1se
cycle
speed
20
30
40
50
60
70
0.8
1.0
1.2
1.4
1.6
1.8

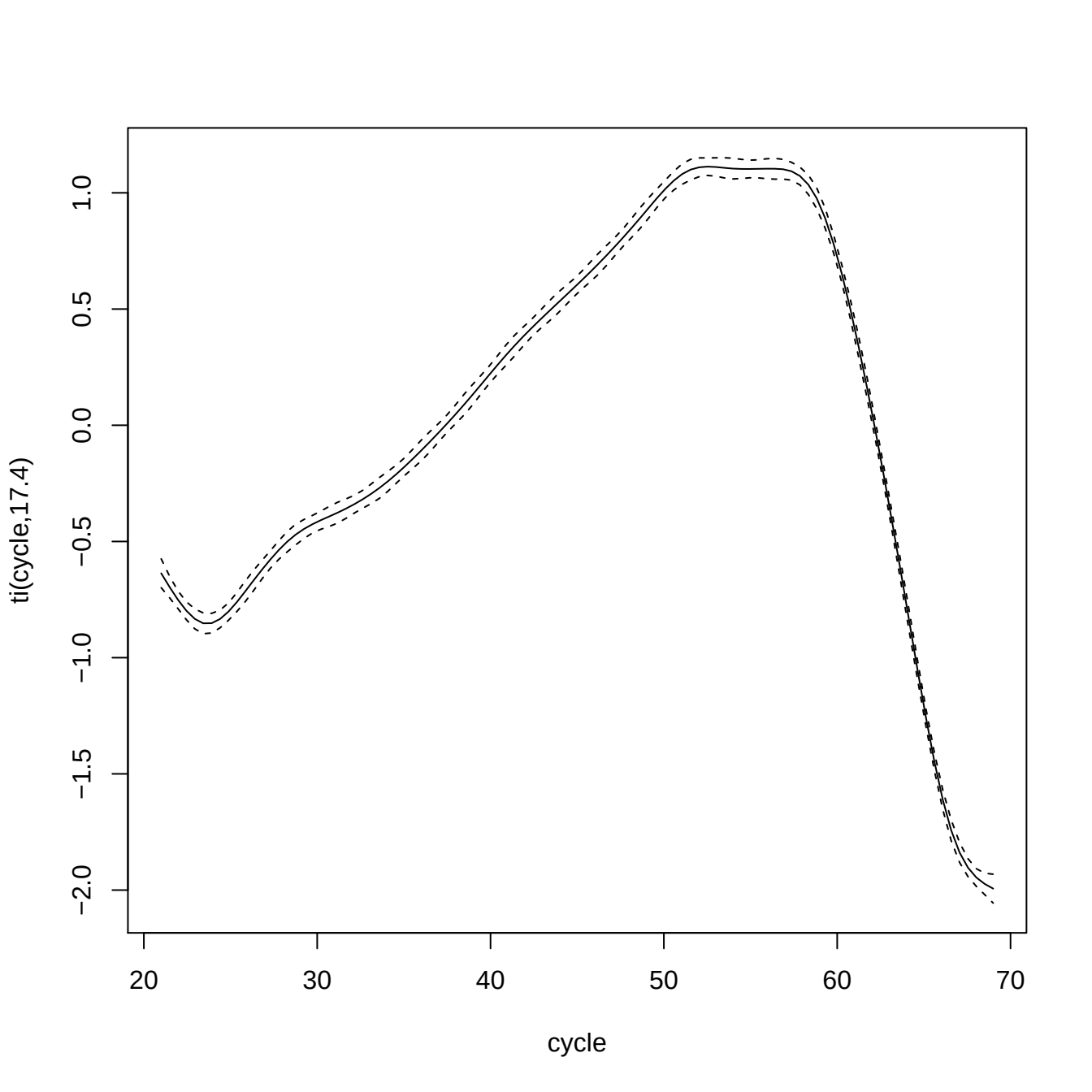

−1se
ti(speed,age,1.87)
+1se
age
speed
20
30
40
50
60
70
80
0.8
1.0
1.2
1.4
1.6
1.8
−0.02
0.02
0.04
0
−0.04
−0.06
−0.08

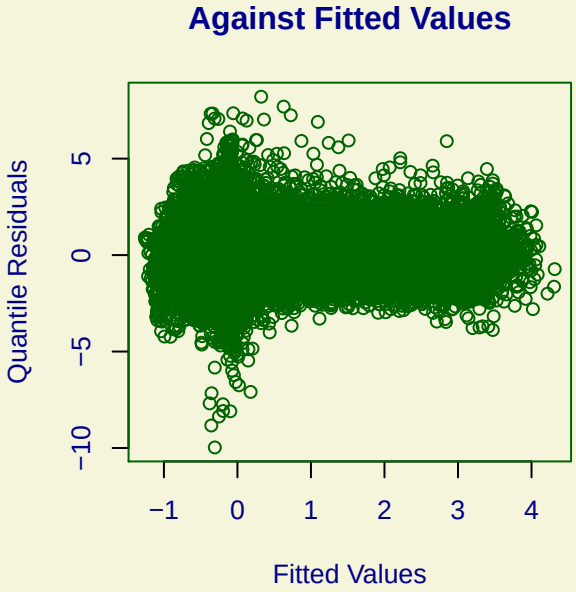

−1se
ti(ht,cycle,45.05)
+1se
cycle
ht
20
30
40
50
60
70
1.5
1.6
1.7
1.8
1.9
2.0

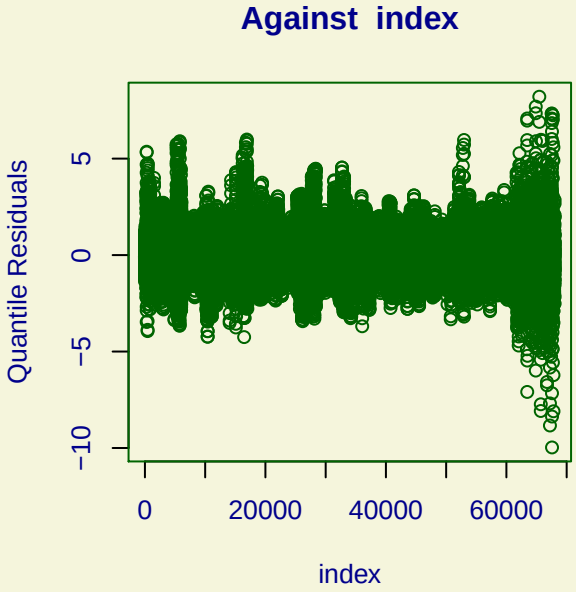

−1se
ti(cycle,strlen,103.77)
+1se
strlen
1.0
1.2
1.4
1.6
1.8
cycle
20
30
40
50
60
70

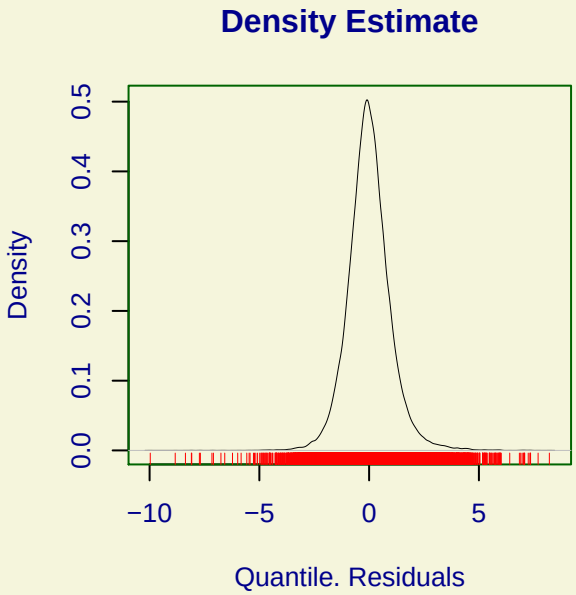

s(study,1.91)
effects
0.010
0.005
0.000
−0.005
−0.010
−0.015
−1.0
−0.5
0.0
0.5
1.0
Gaussian quantiles


s(study,subj,238.1)
effects
0.1
0.0
−0.1
−0.2
−3
−2
−1
0
1
2
3
Gaussian quantiles


ti(cycle,17.4)
1.0
0.5
0.0
−0.5
−1.0
−1.5
−2.0
20
30
40
50
60
70
cycle


Against Fitted Values
Quantile Residuals
5
0
−5
−10
−1
0
1
2
3
4
Fitted Values


Against index
Quantile Residuals
5
0
−5
−10
0
20000
40000
60000
index


Density Estimate
Density
0.0
0.1
0.2
0.3
0.4
0.5
−10
−5
0
5
Quantile. Residuals