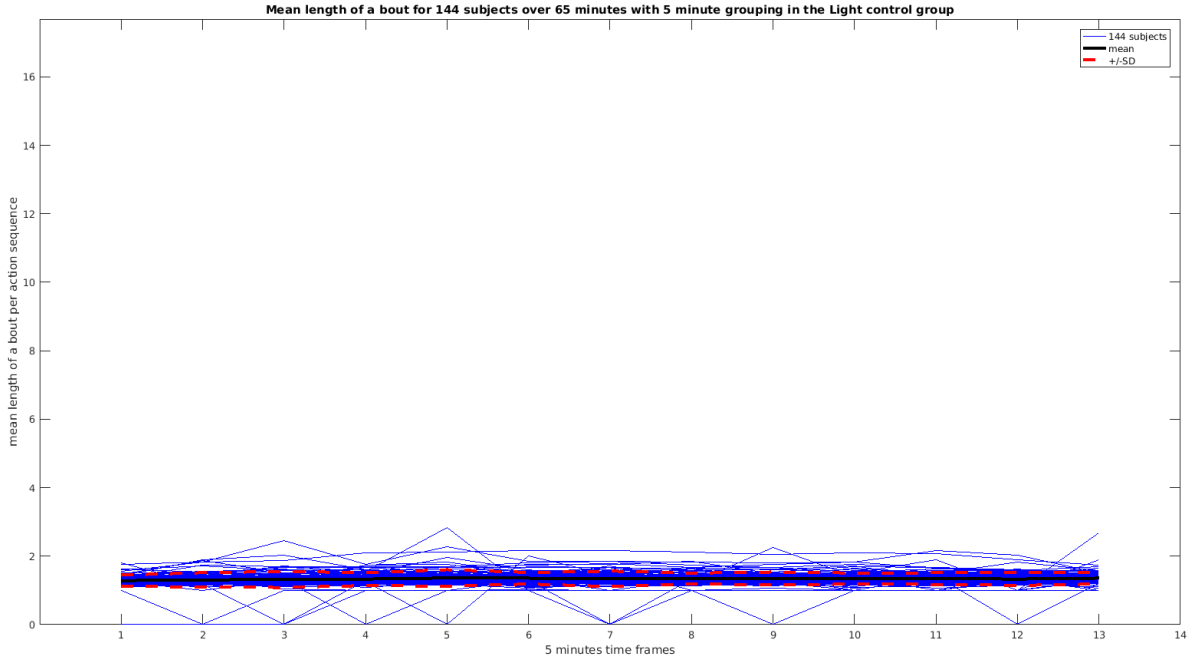
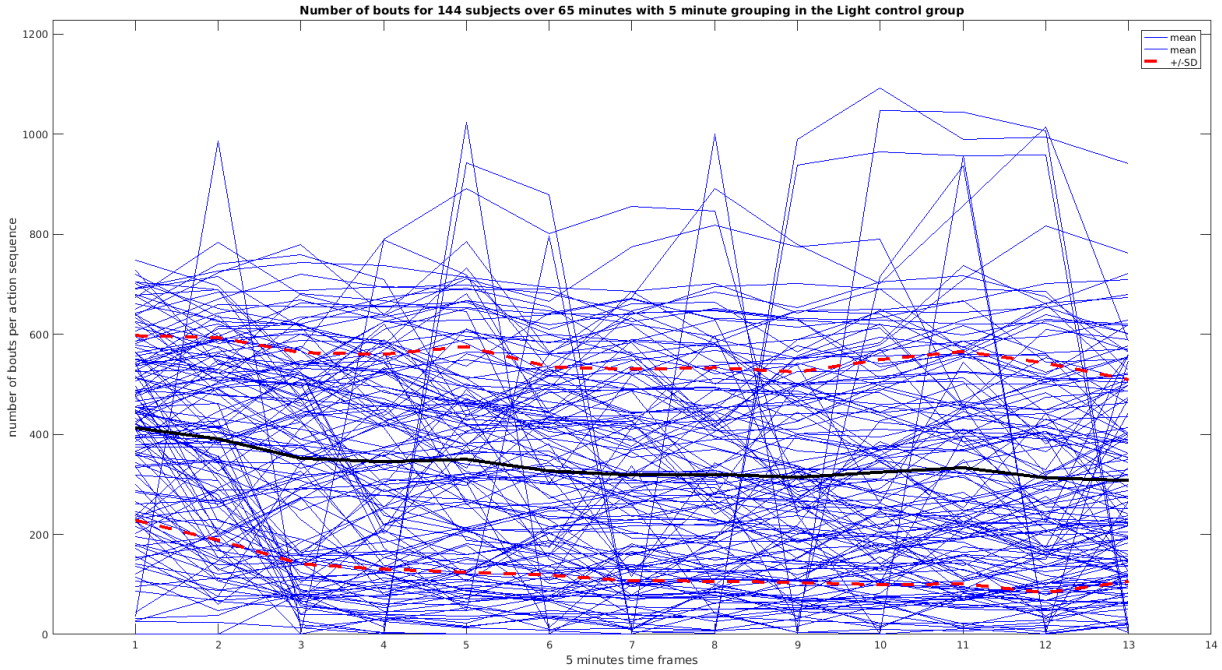
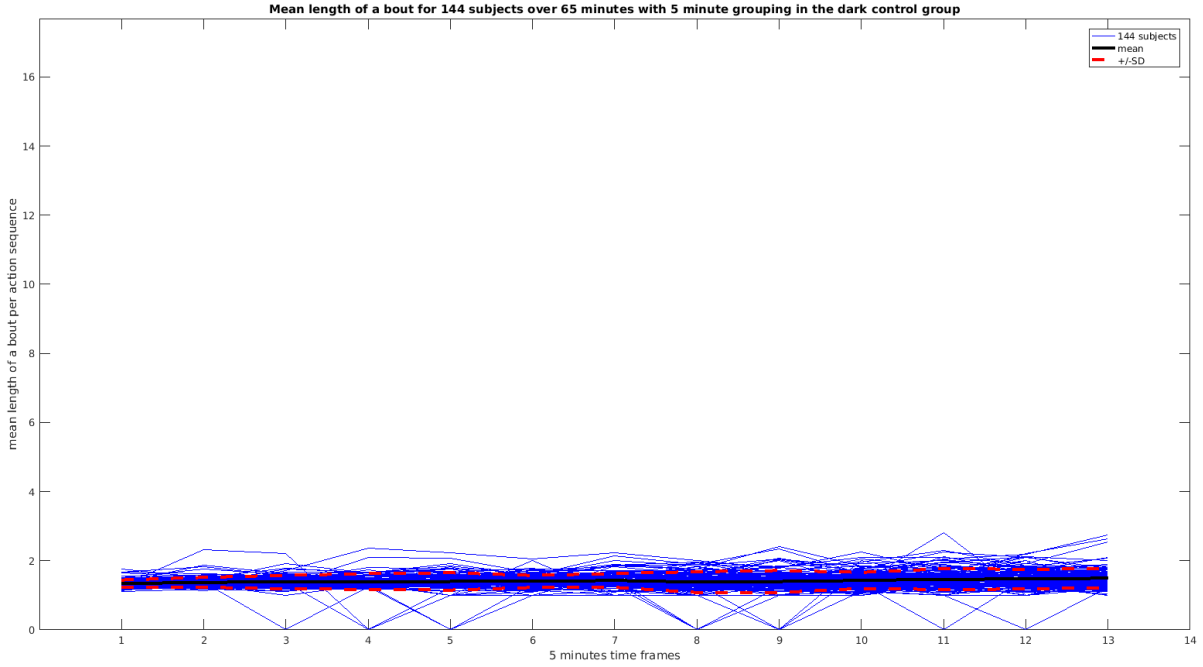
- Looking at the data from the control groups:
  - **Action sequence length**
  - **Bout frequency** and **bout length** per action sequence
  - **Turn proportion**
  - **Simple motifs**

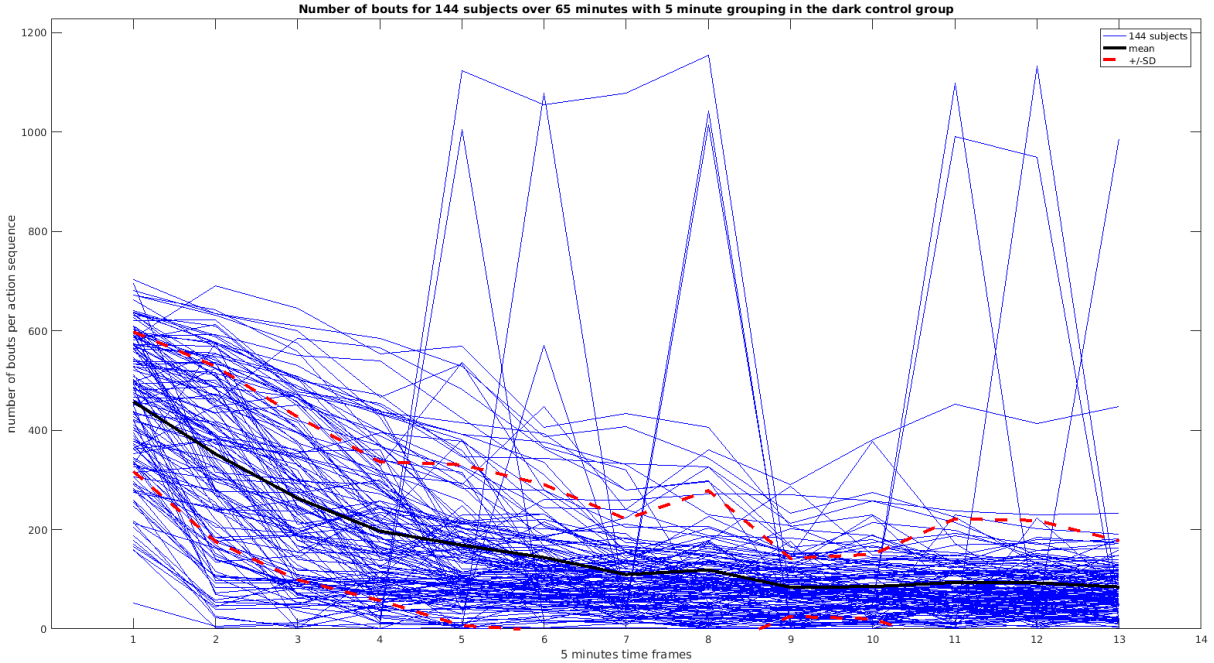
- **Action sequence** length per 5 minute time frame is influenced by the **bout lengths** and **frequency**.
- These characteristics have already been explored:
  - **Light** will have constant mean bout length, SD of bout length and bout frequency:



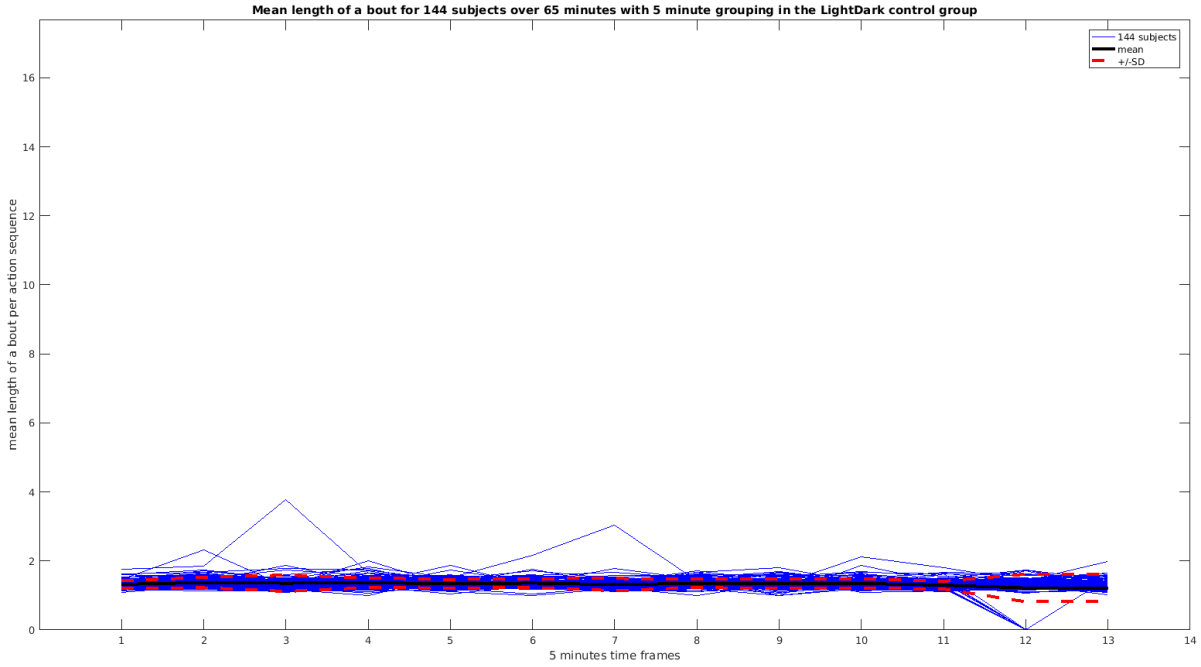



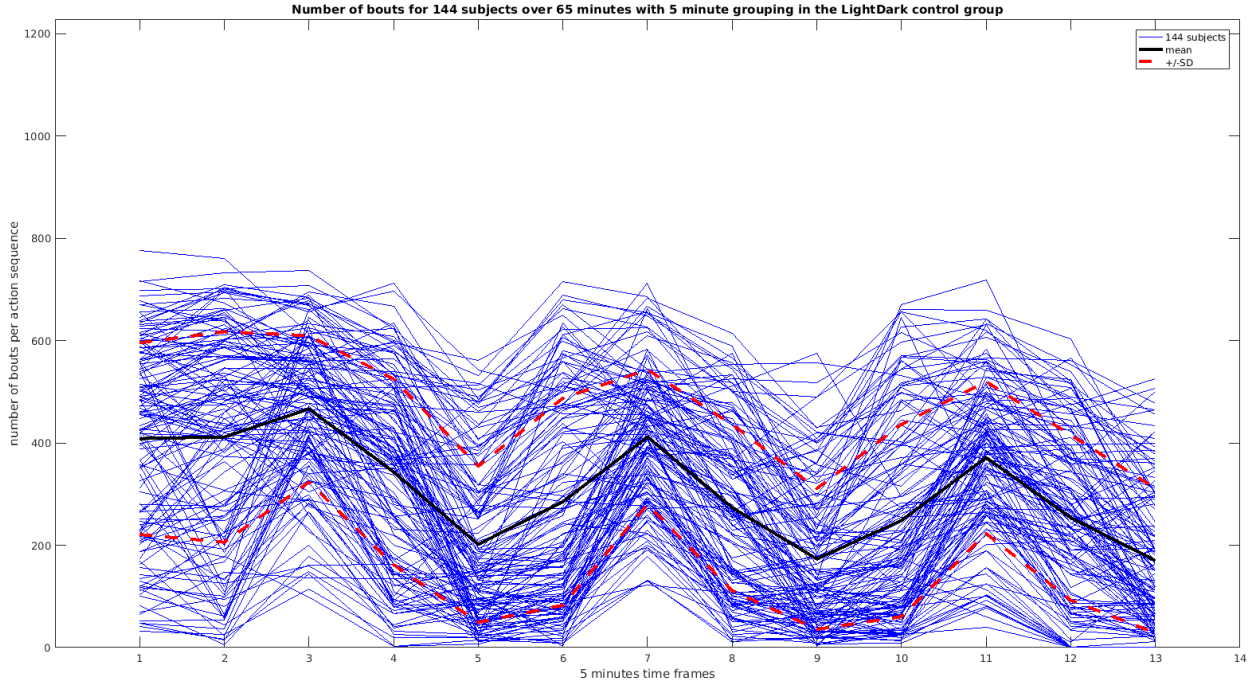
- In **Dark** the number of bouts will decrease, while the mean length of bout will stay the same, but the variation between the subjects increases slightly in the last time frames:



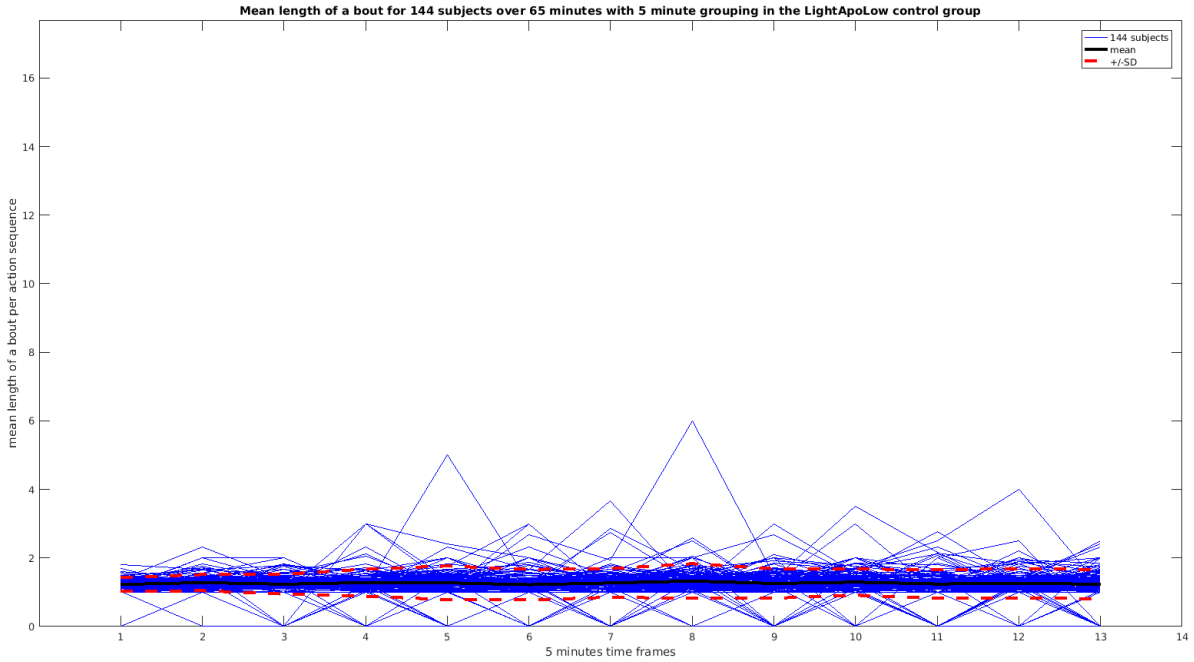



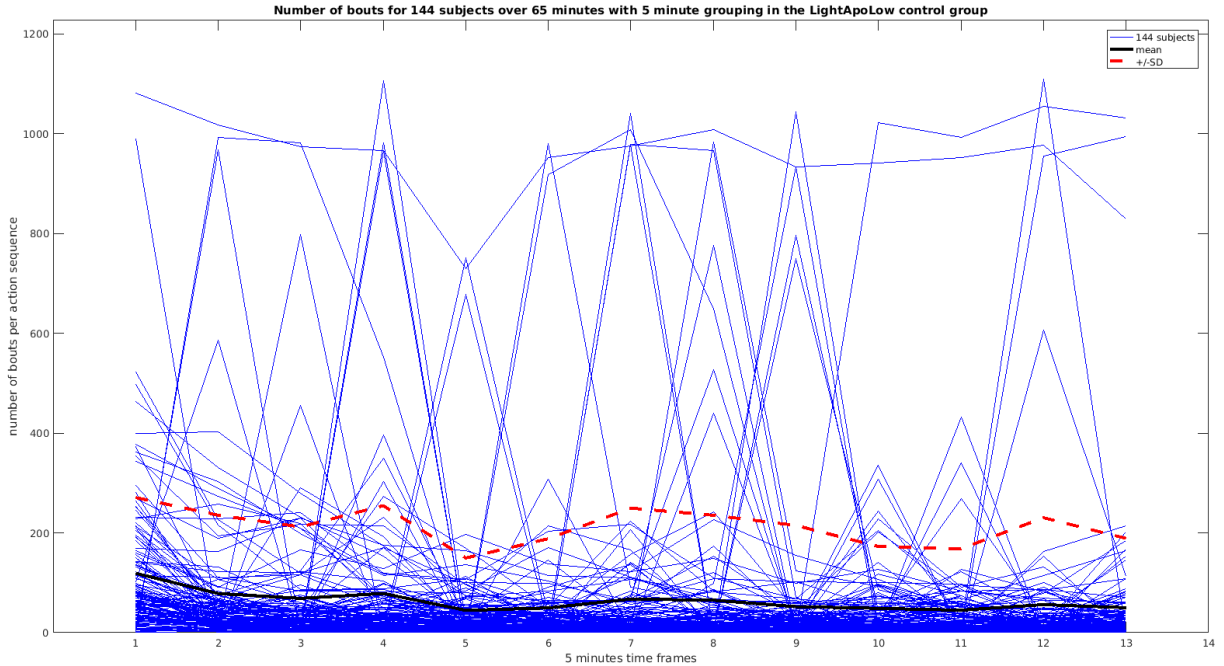
- **LightDark** shows the alternations in the number of bouts, while mean length of bout and SD stay the same:



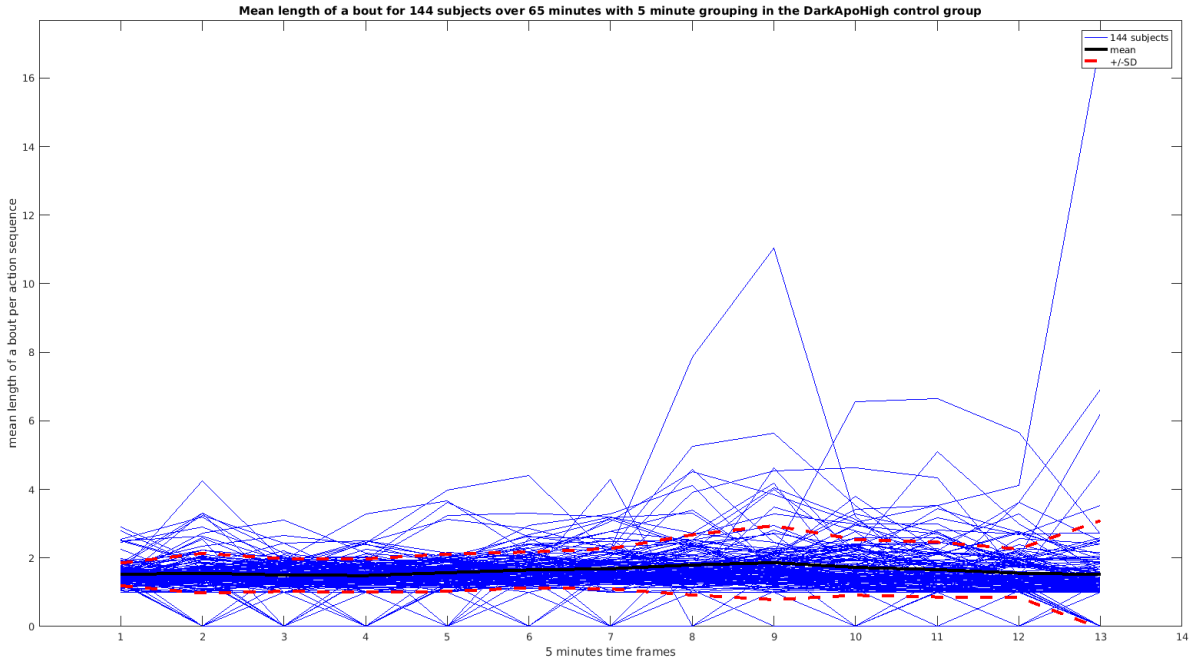



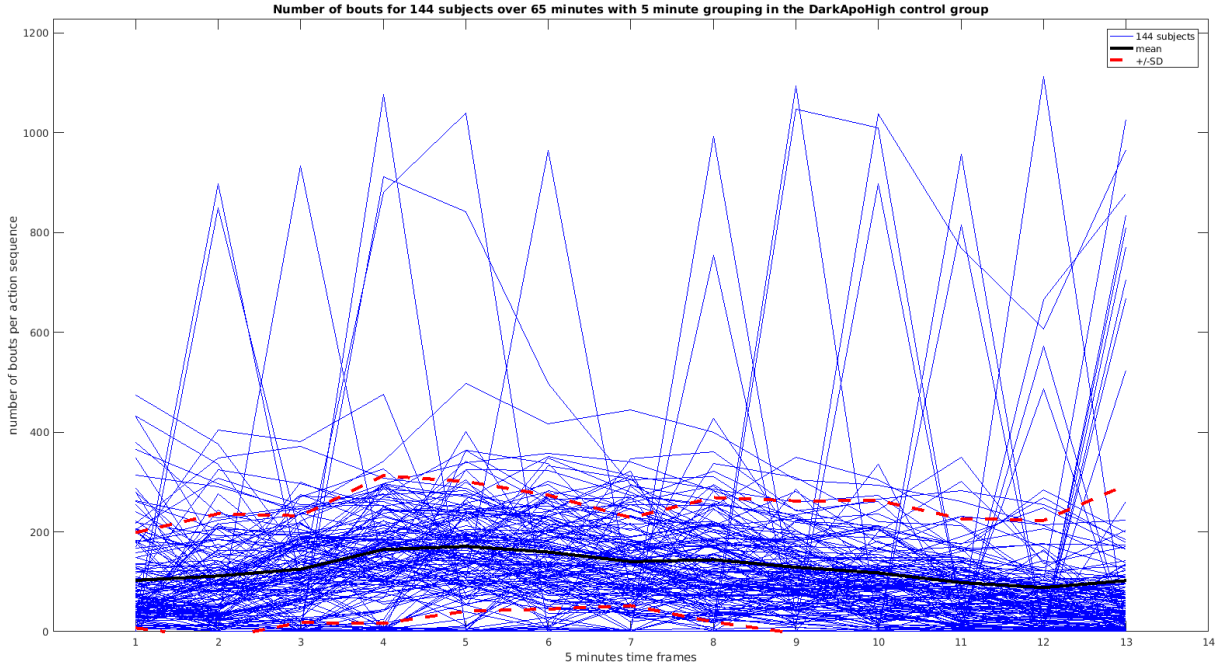
- **(Dark)ApoLow** will have immediately decreased number of bouts, that stay low all through the experiment. Mean length of bout seems to be the same with slightly increased SD between the subjects:



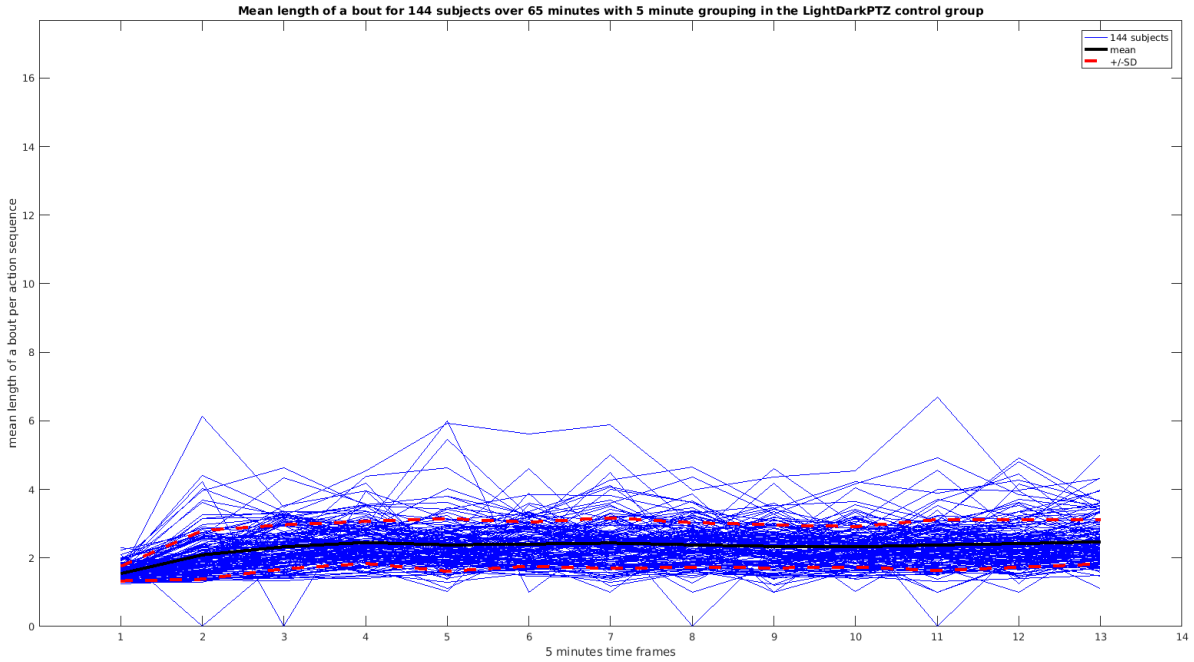



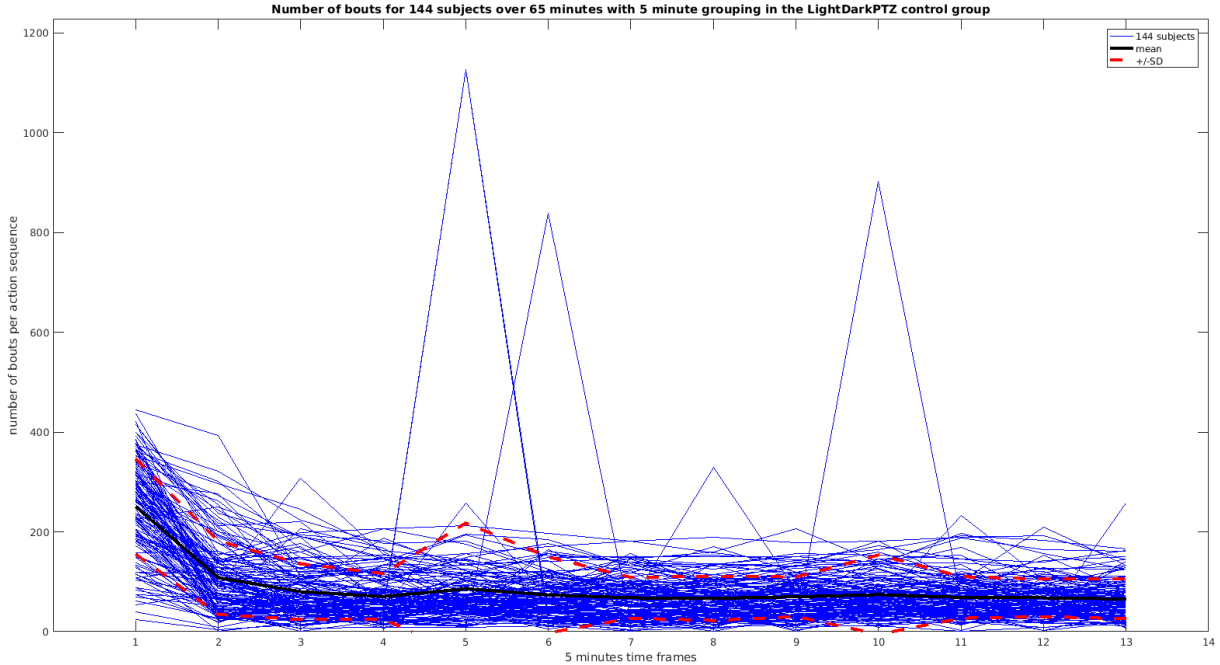
- **(Dark)ApoHigh** has an overall decreased number of bouts, which show the U shape response. Mean length of bout has increased variation between the subjects:



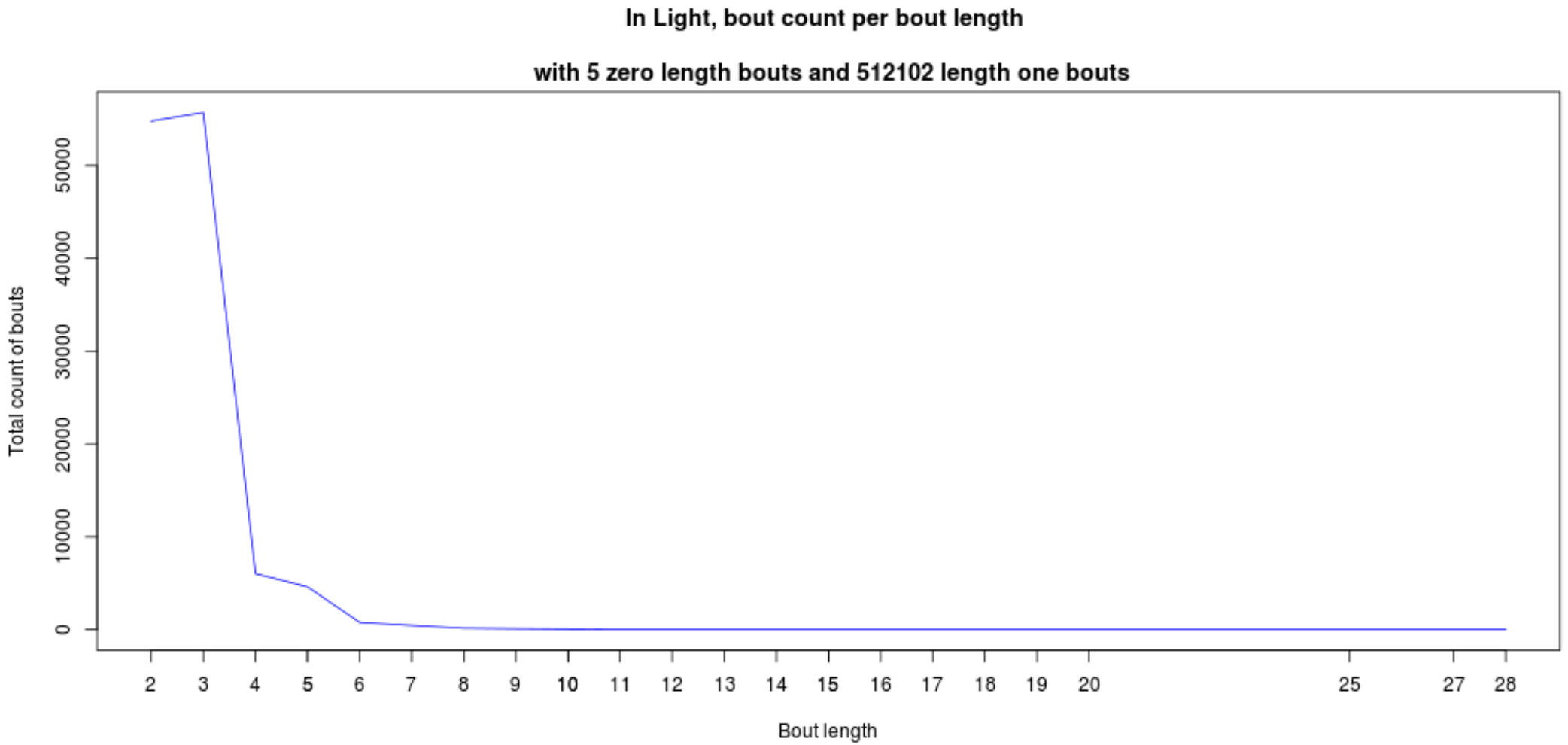



- In **(Dark)PTZ** the number of bouts decreases substantialy. Mean length of bout increases and so does the variation between the subjects:

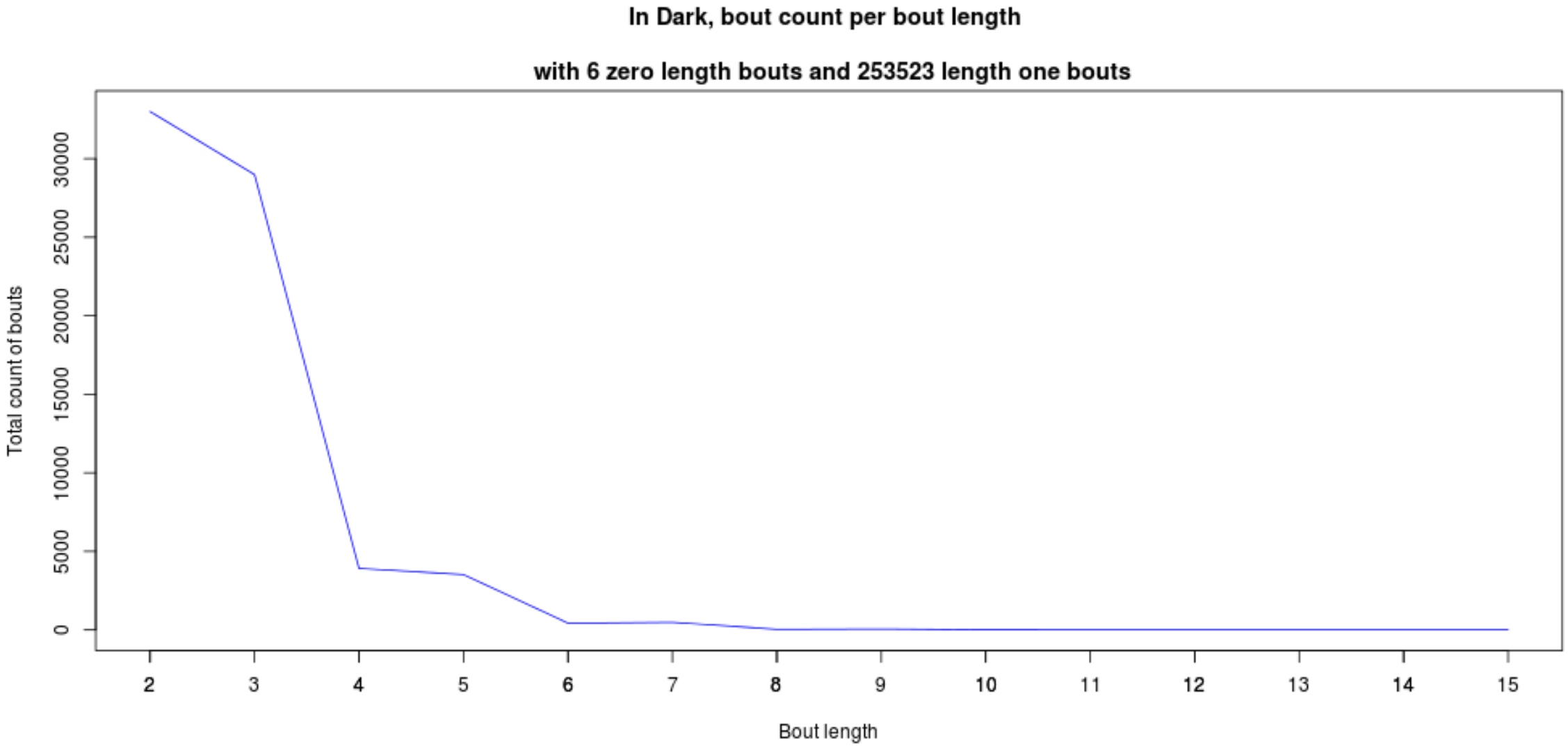


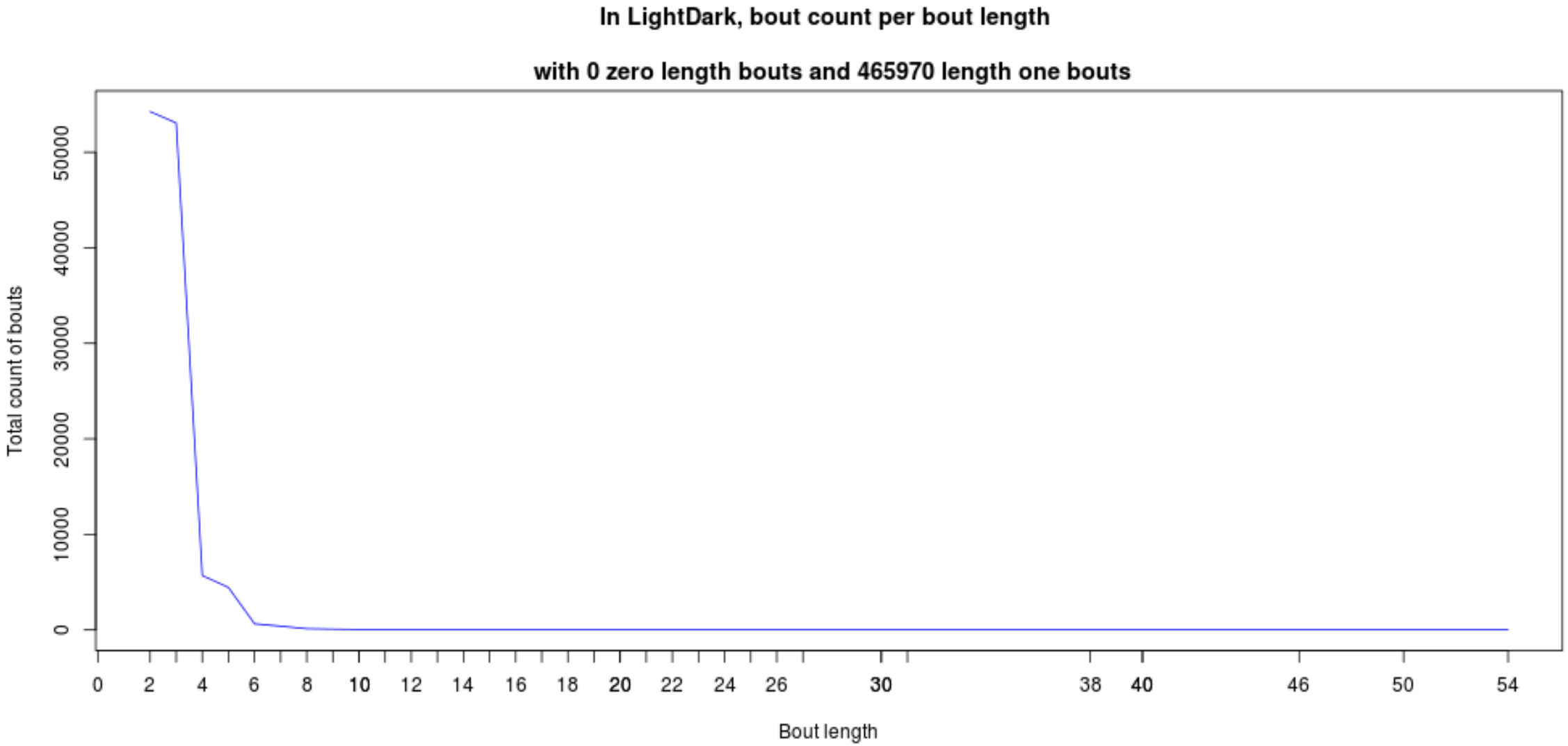
- With averaging over the action sequence a lot of information is lost, since the SD of bout length is always relatively high.
- The number of short or long bouts differs between the controls:
  - Light:



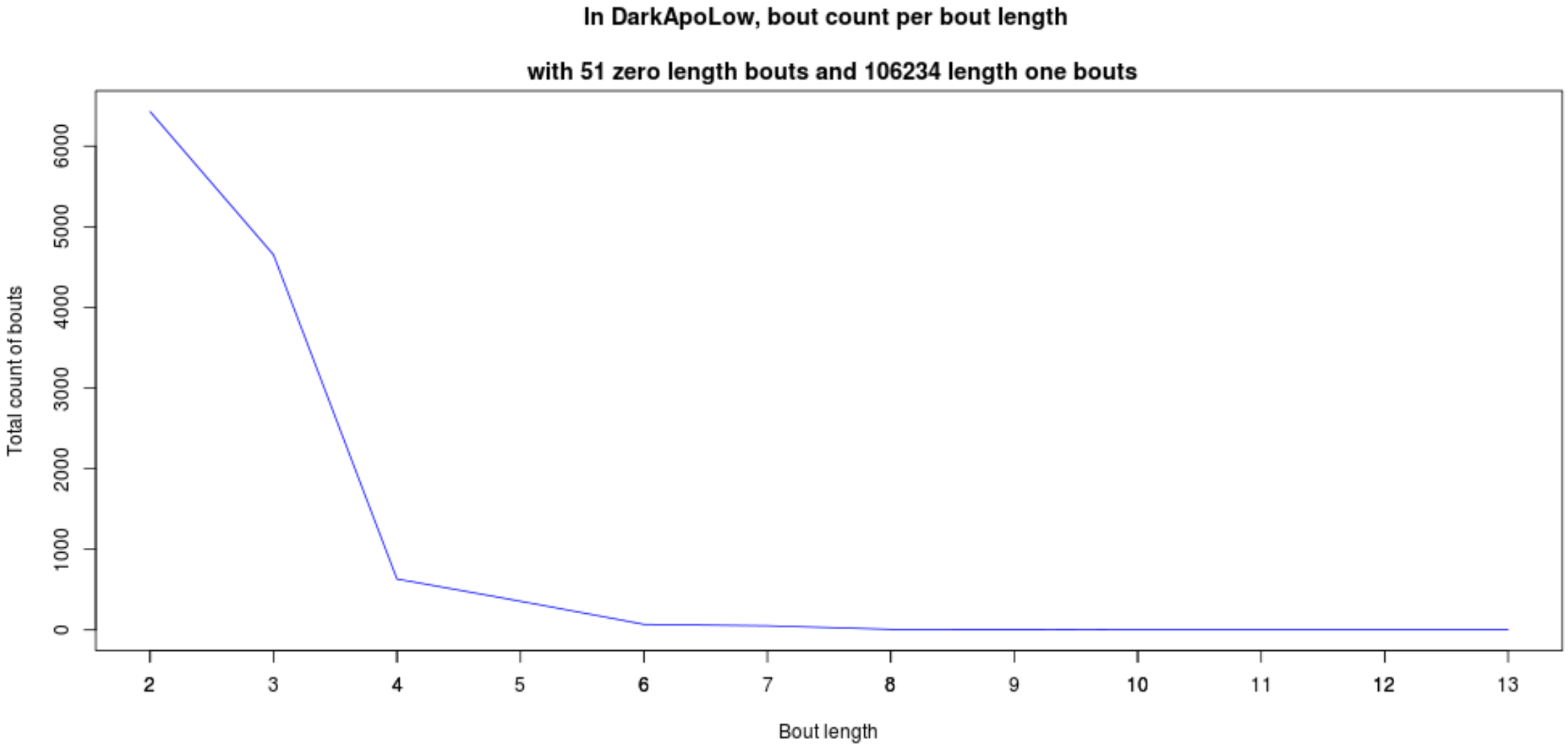
- Dark:


In Dark, bout count per bout length
with 6 zero length bouts and 253523 length one bouts
Total count of bouts
0
5000
10000
15000
20000
25000
30000
2
3
4
5
6
7
8
9
10
11
12
13
14
15
Bout length

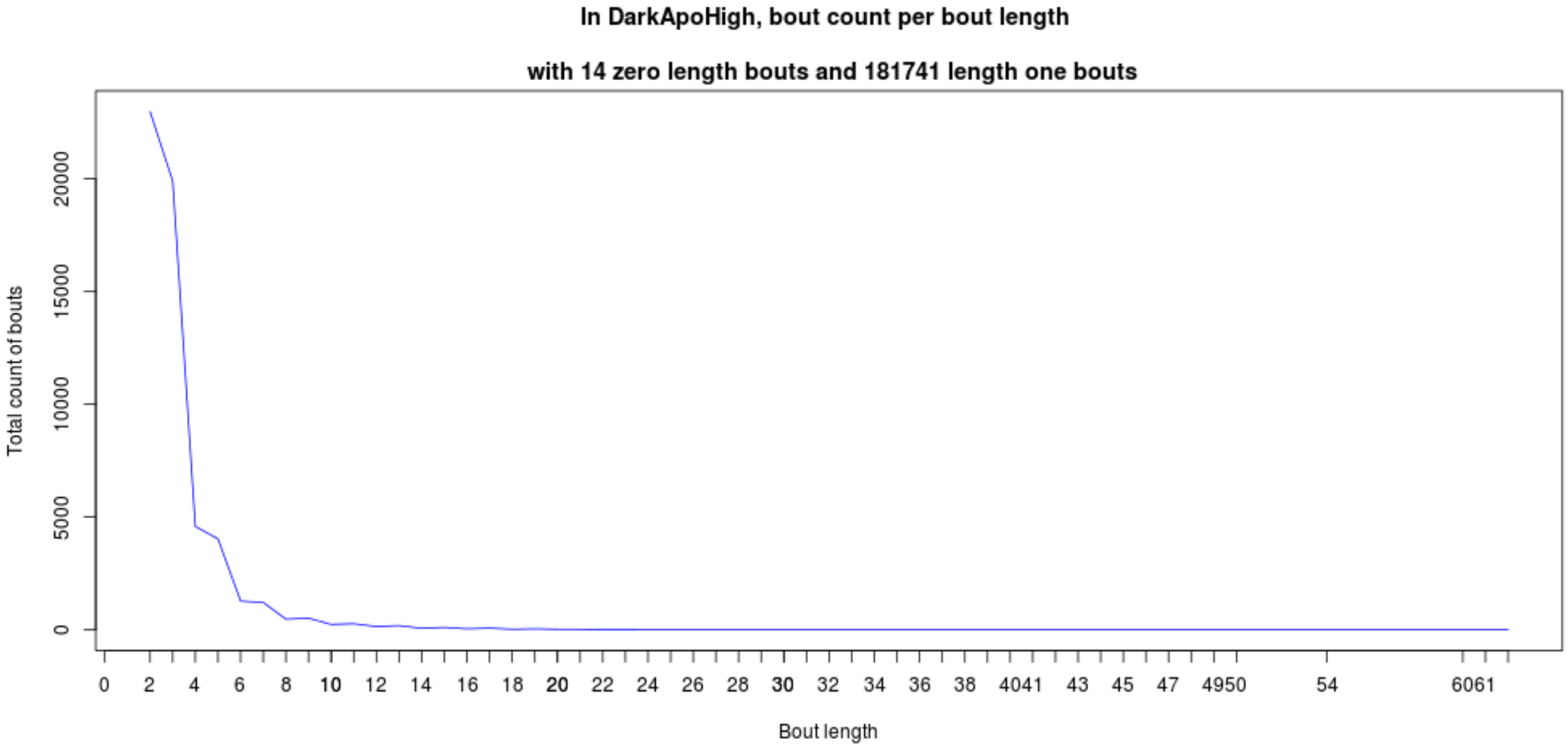
- LightDark:


In LightDark, bout count per bout length
with 0 zero length bouts and 465970 length one bouts
Total count of bouts
0
10000
20000
30000
40000
50000
0
2
4
6
8
10
12
14
16
18
20
22
24
26
30
38
40
46
50
54
Bout length

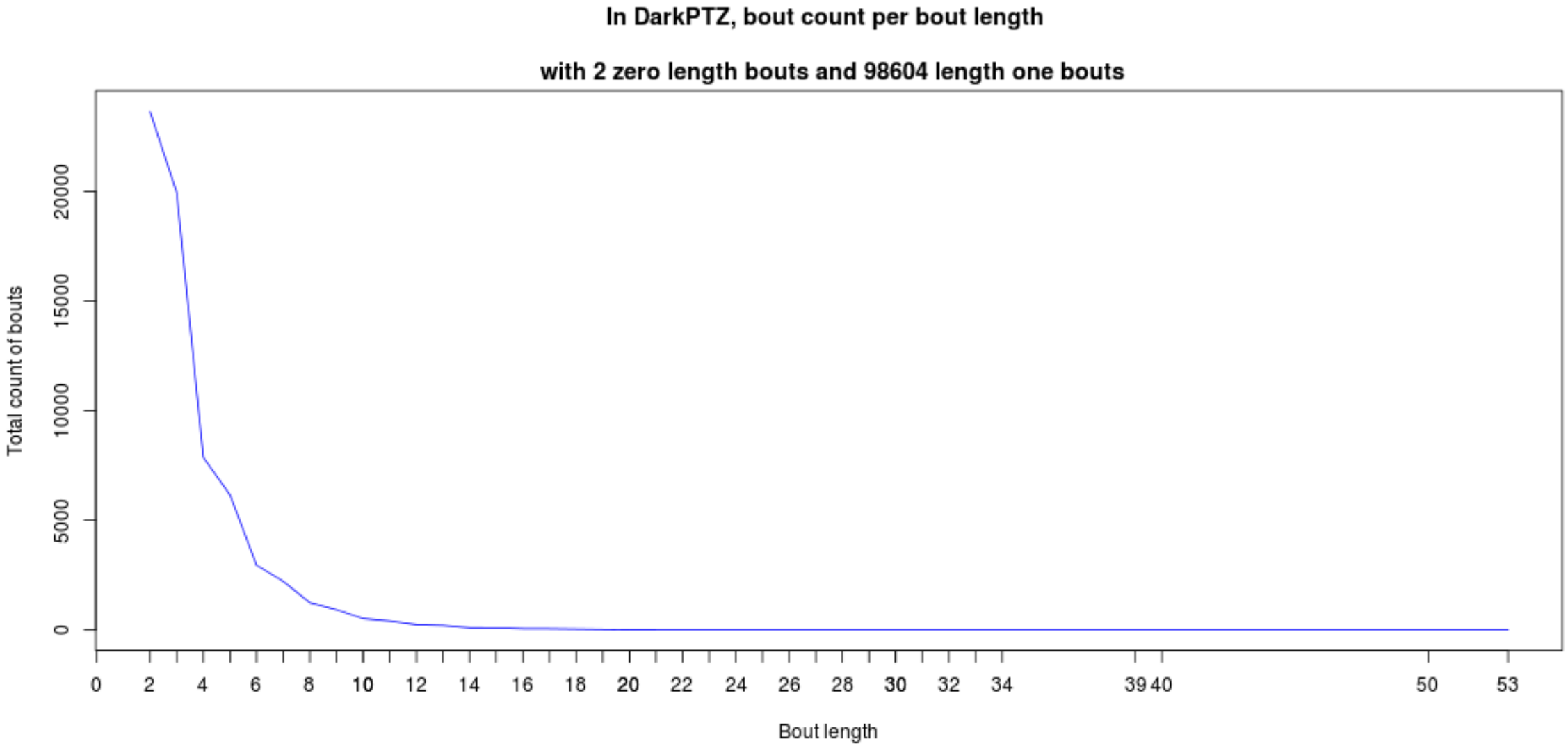
- (Dark)ApoLow:


In DarkApoLow, bout count per bout length
with 51 zero length bouts and 106234 length one bouts
Total count of bouts
0
1000
2000
3000
4000
5000
6000
2
3
4
5
6
7
8
9
10
11
12
13
Bout length

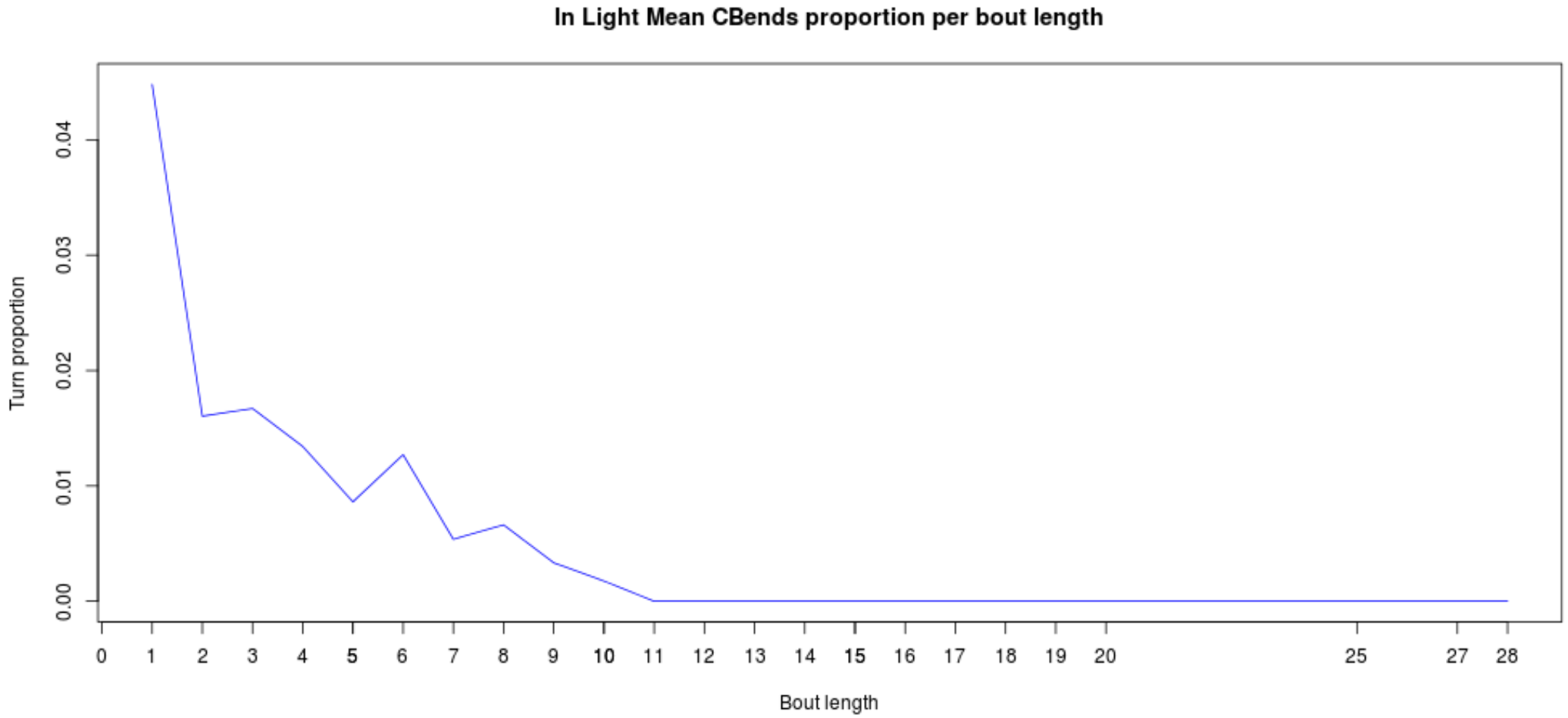
- (Dark)ApoHigh:



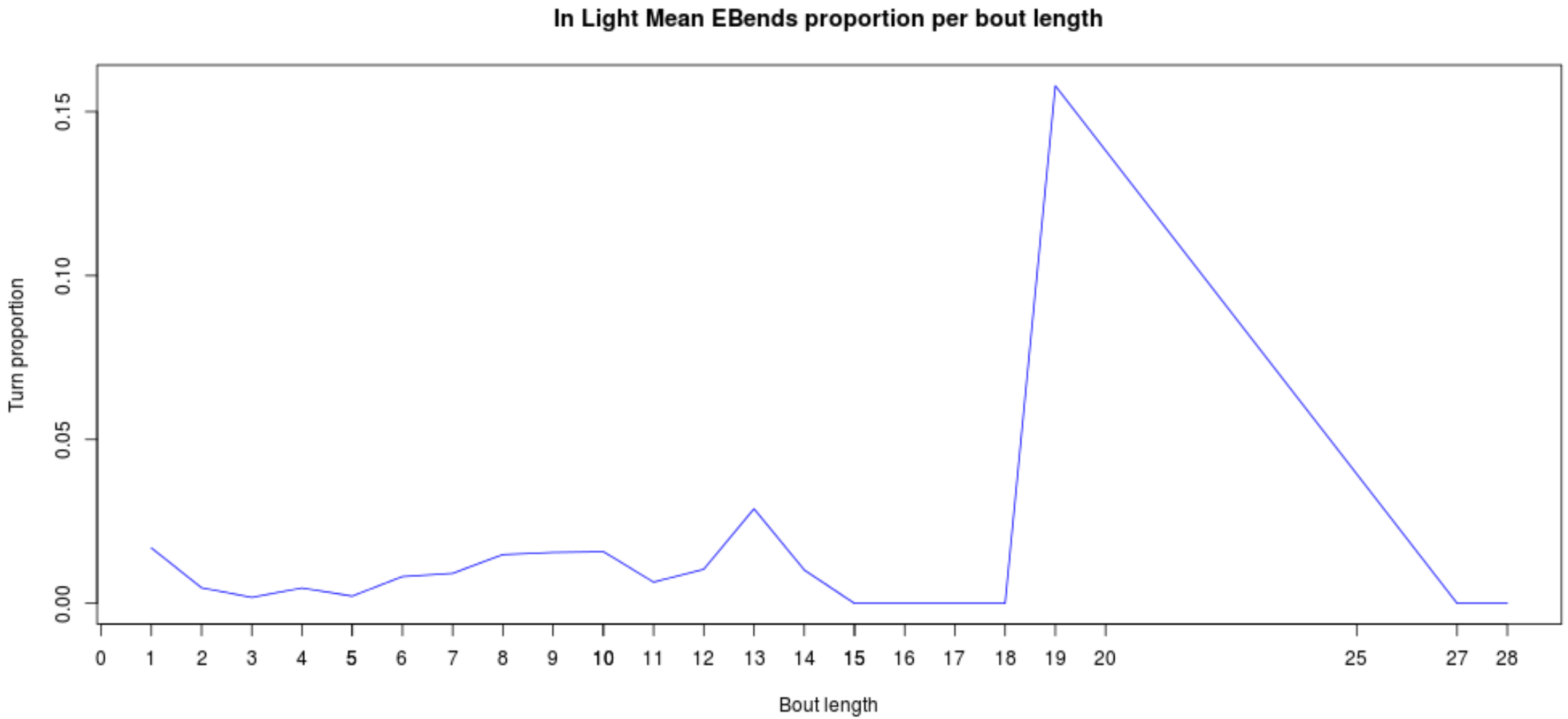
- (Dark)PTZ:


In DarkPTZ, bout count per bout length
with 2 zero length bouts and 98604 length one bouts
Total count of bouts
0
5000
10000
15000
20000
0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 39 40 50 53
Bout length

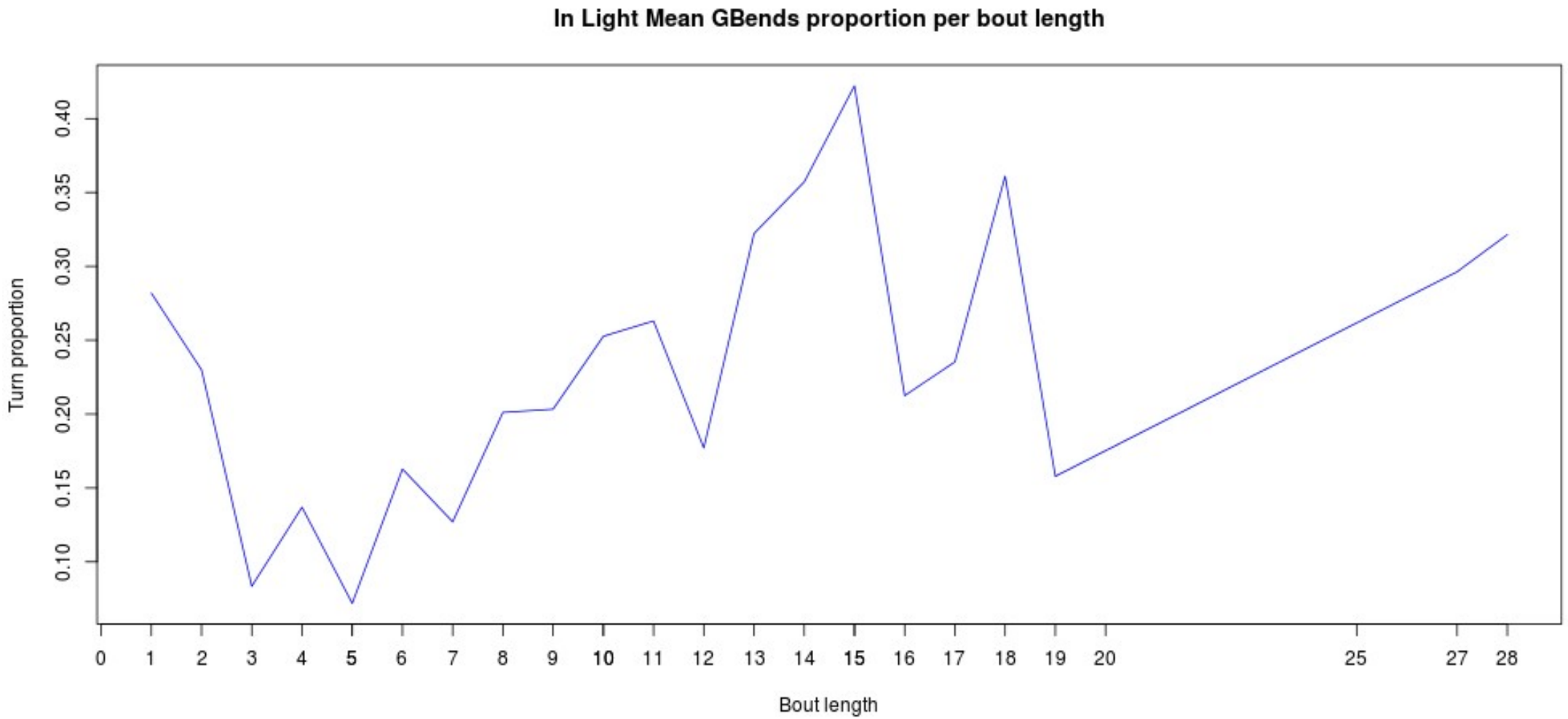
Turn proportion per action sequence is influenced by bout length and frequency.
Light:



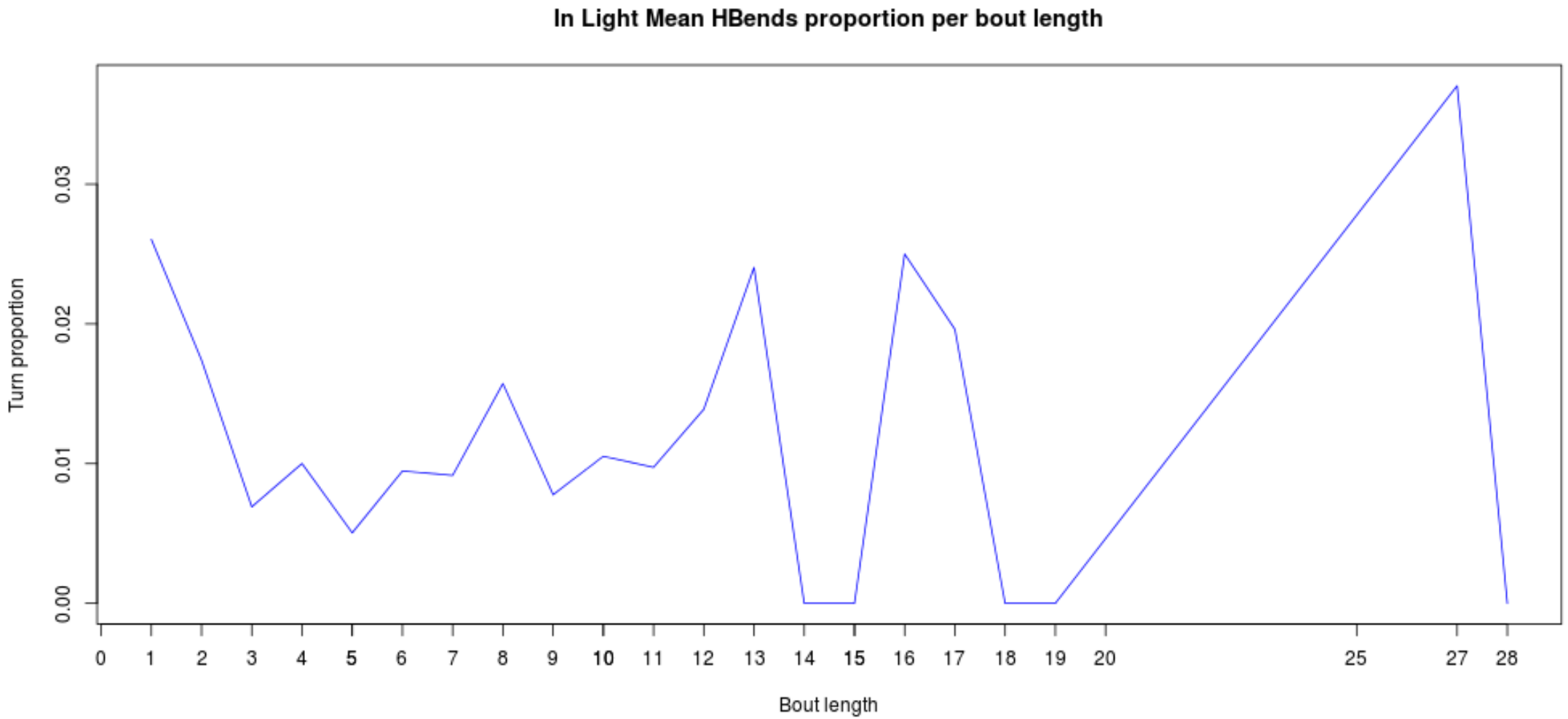
- Light:


In Light Mean EBends proportion per bout length
Turn proportion
0.00
0.05
0.10
0.15
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 25 27 28
Bout length

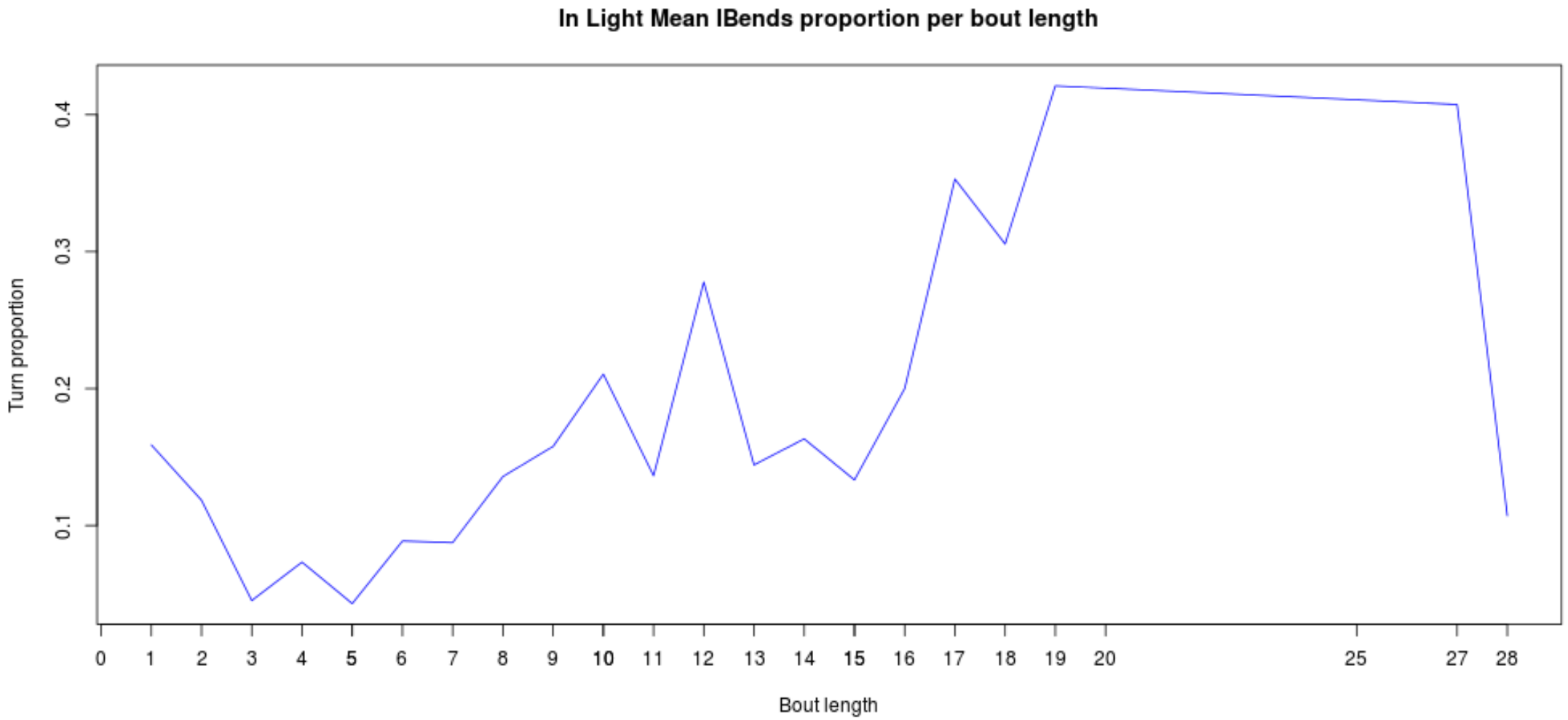
- Light:


In Light Mean GBends proportion per bout length
Turn proportion
0.10
0.15
0.20
0.25
0.30
0.35
0.40
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 25 27 28
Bout length

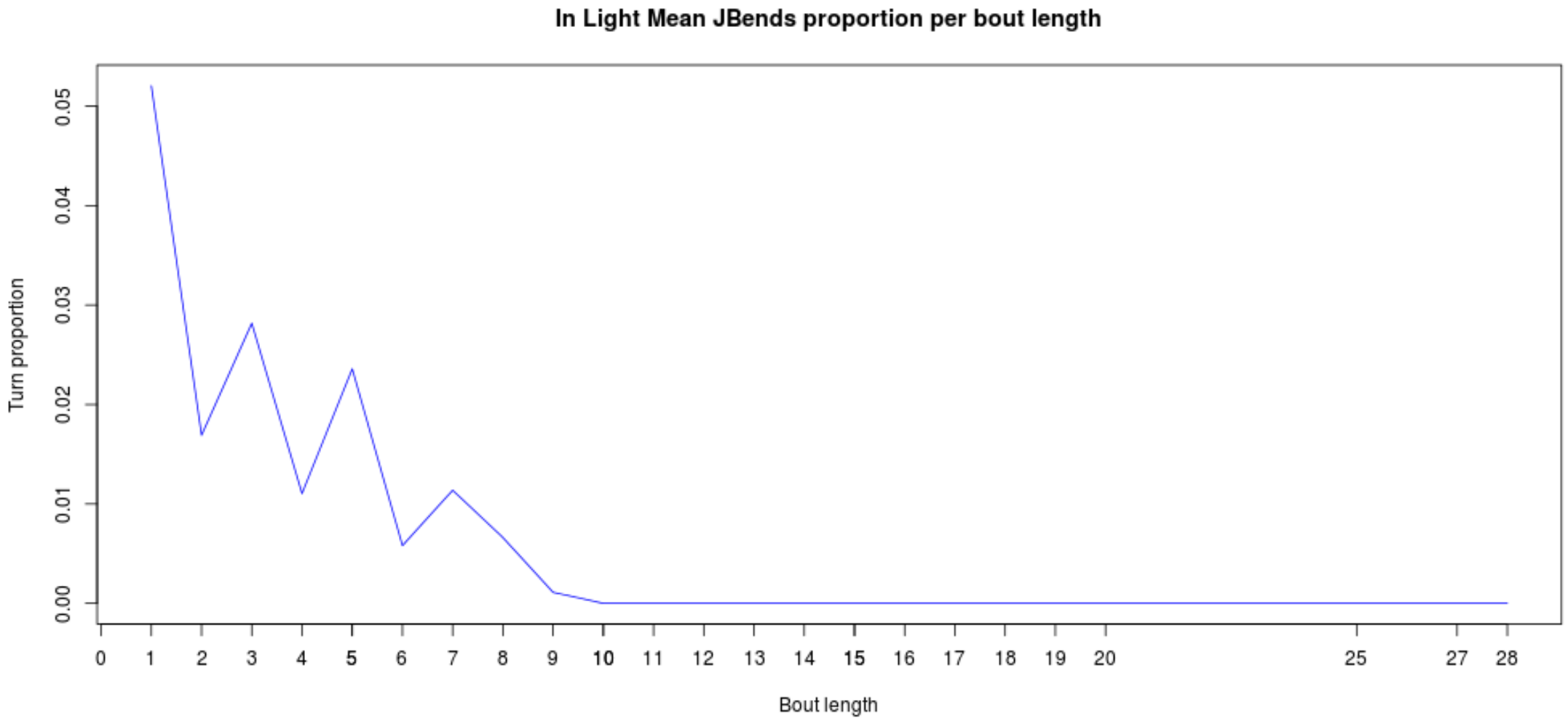
- Light:


In Light Mean HBends proportion per bout length
Turn proportion
0.00
0.01
0.02
0.03
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 25 27 28
Bout length

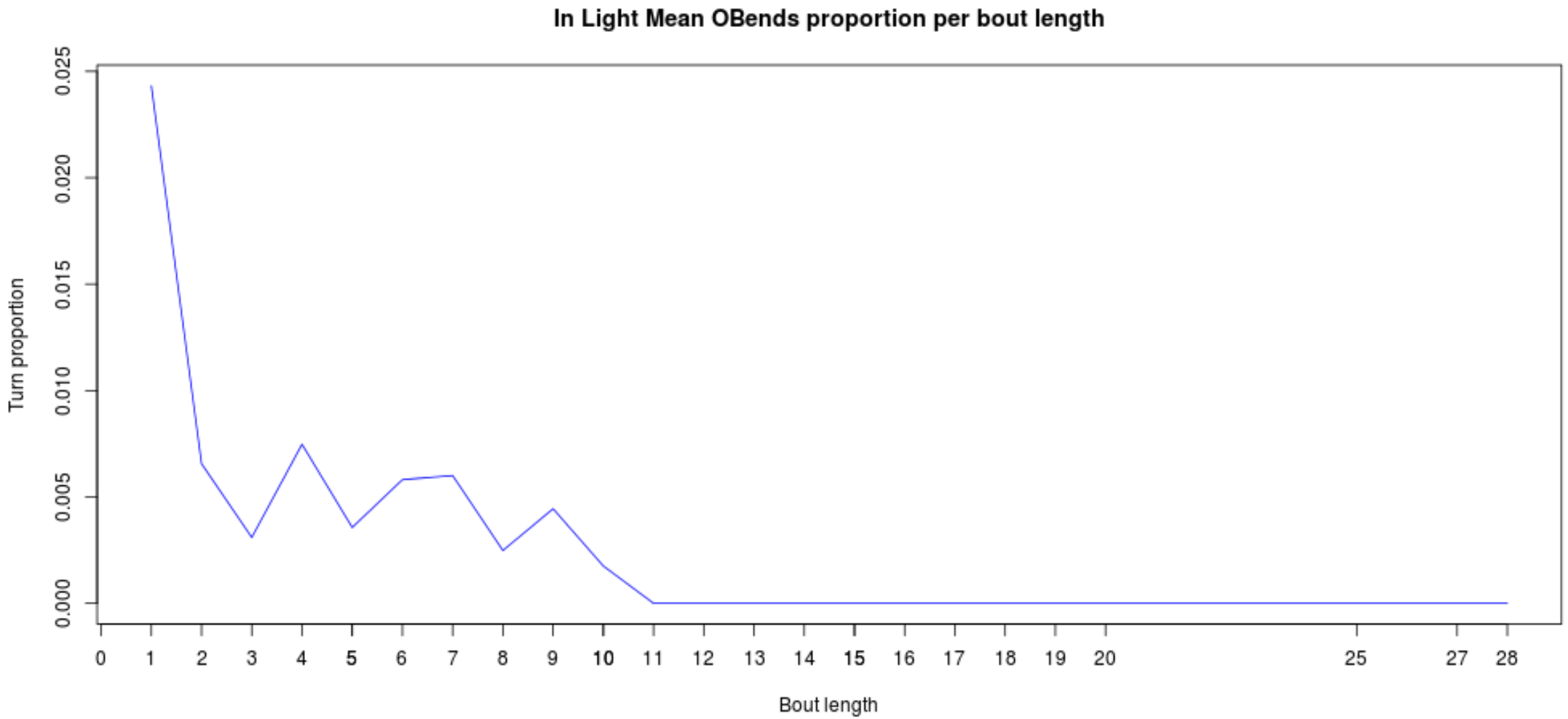
- Light:


In Light Mean lBends proportion per bout length
Turn proportion
0.1
0.2
0.3
0.4
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 25 27 28
Bout length

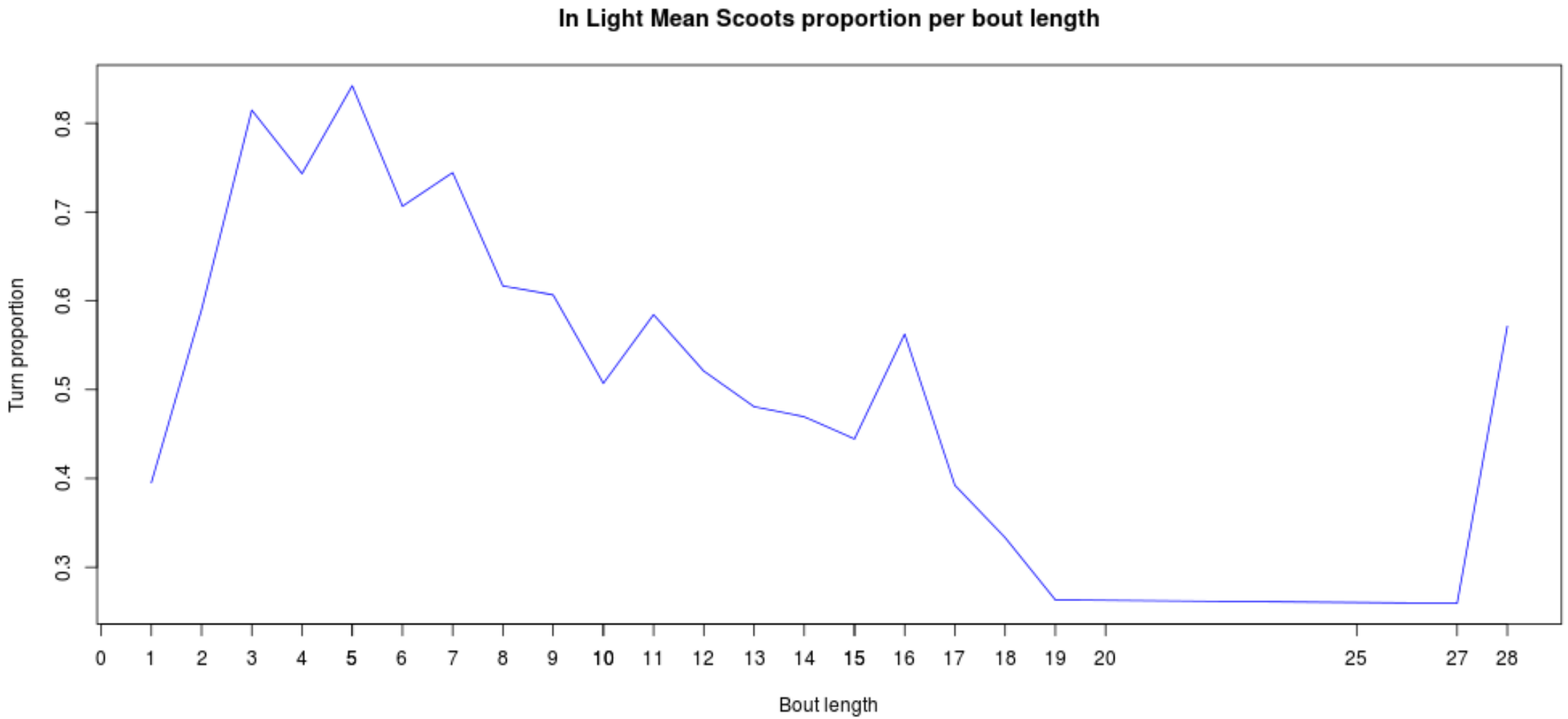
- Light:


In Light Mean JBends proportion per bout length
Turn proportion
0.00
0.01
0.02
0.03
0.04
0.05
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 25 27 28
Bout length

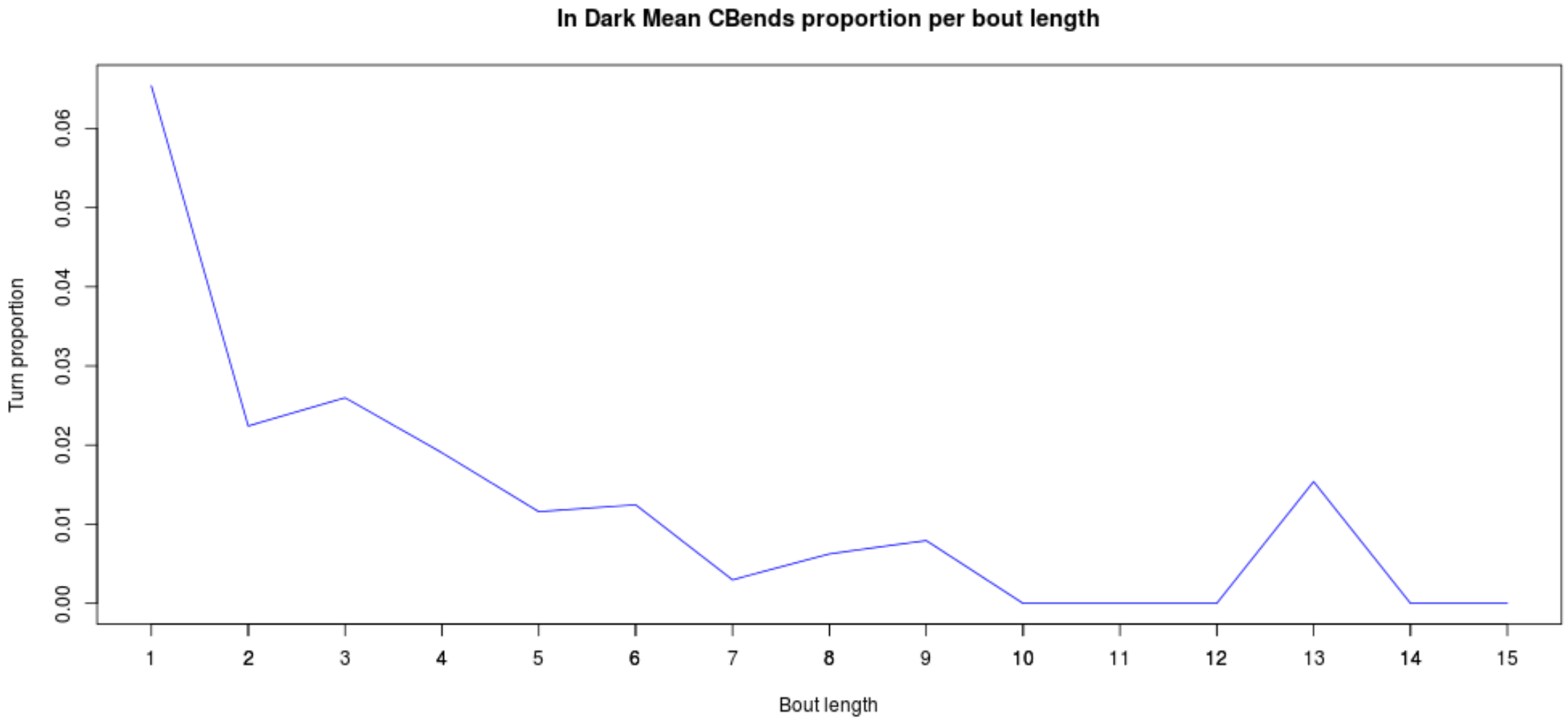
- Light:


In Light Mean OBends proportion per bout length
Turn proportion
0.000
0.005
0.010
0.015
0.020
0.025
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 25 27 28
Bout length

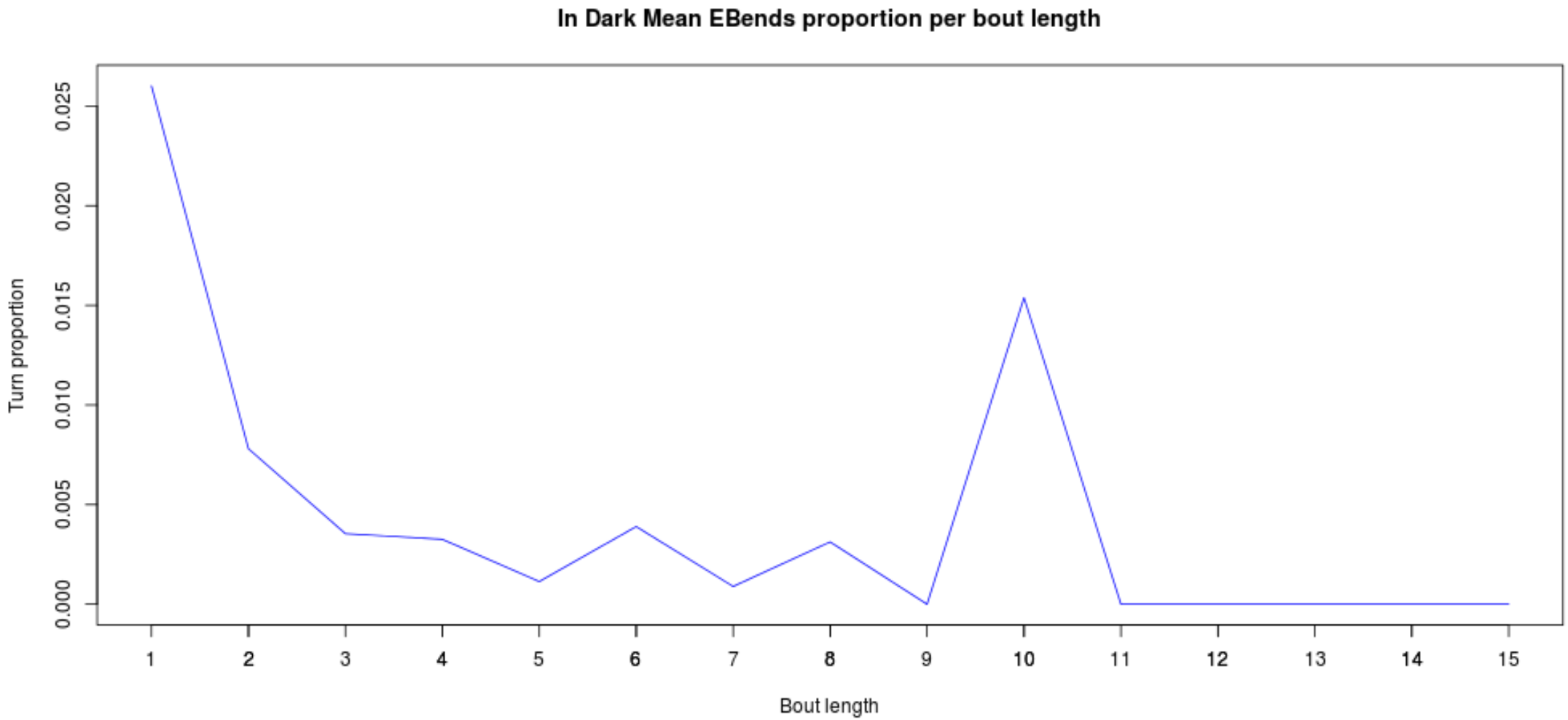
- Light:


In Light Mean Scoots proportion per bout length
Turn proportion
0.3
0.4
0.5
0.6
0.7
0.8
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 25 27 28
Bout length

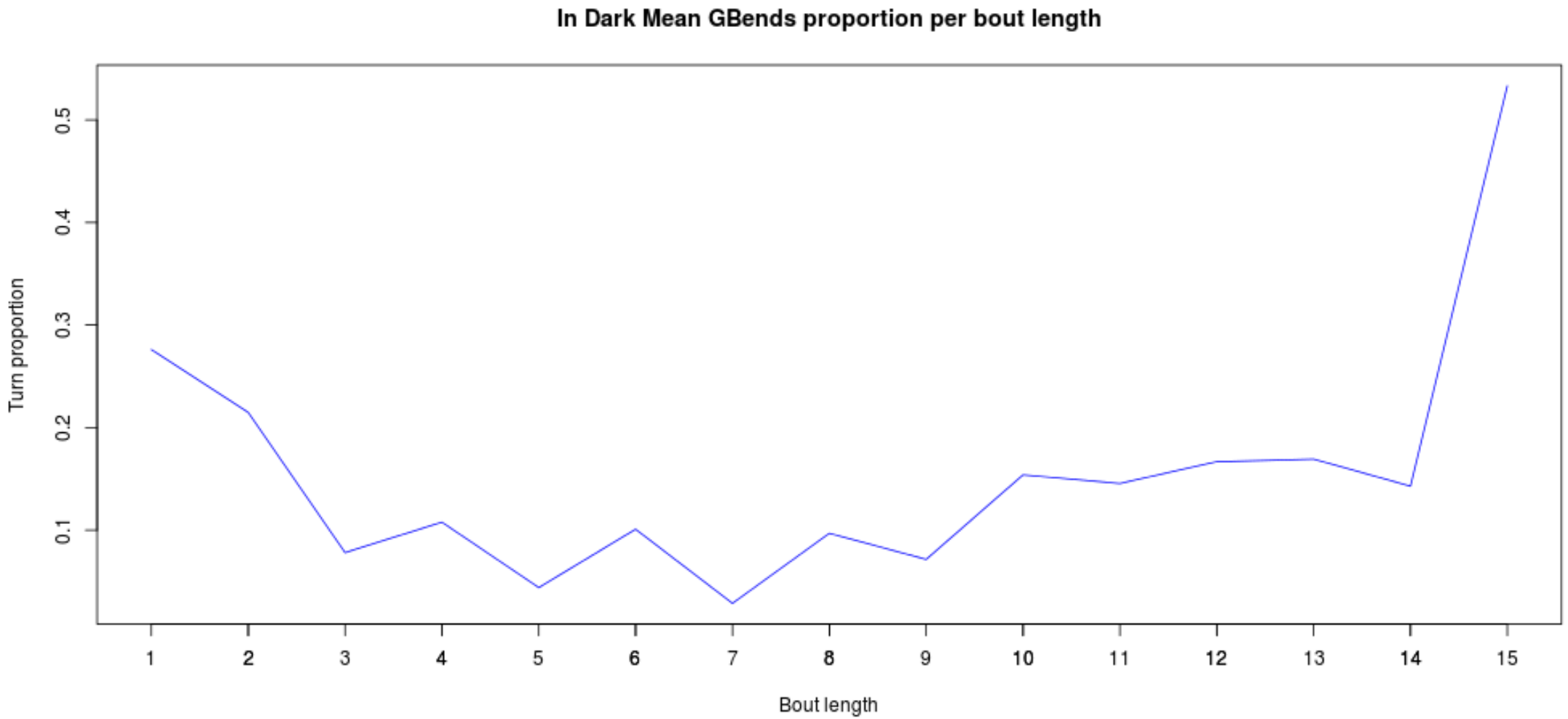
- Dark:


In Dark Mean CBends proportion per bout length
Turn proportion
0.00
0.01
0.02
0.03
0.04
0.05
0.06
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
Bout length

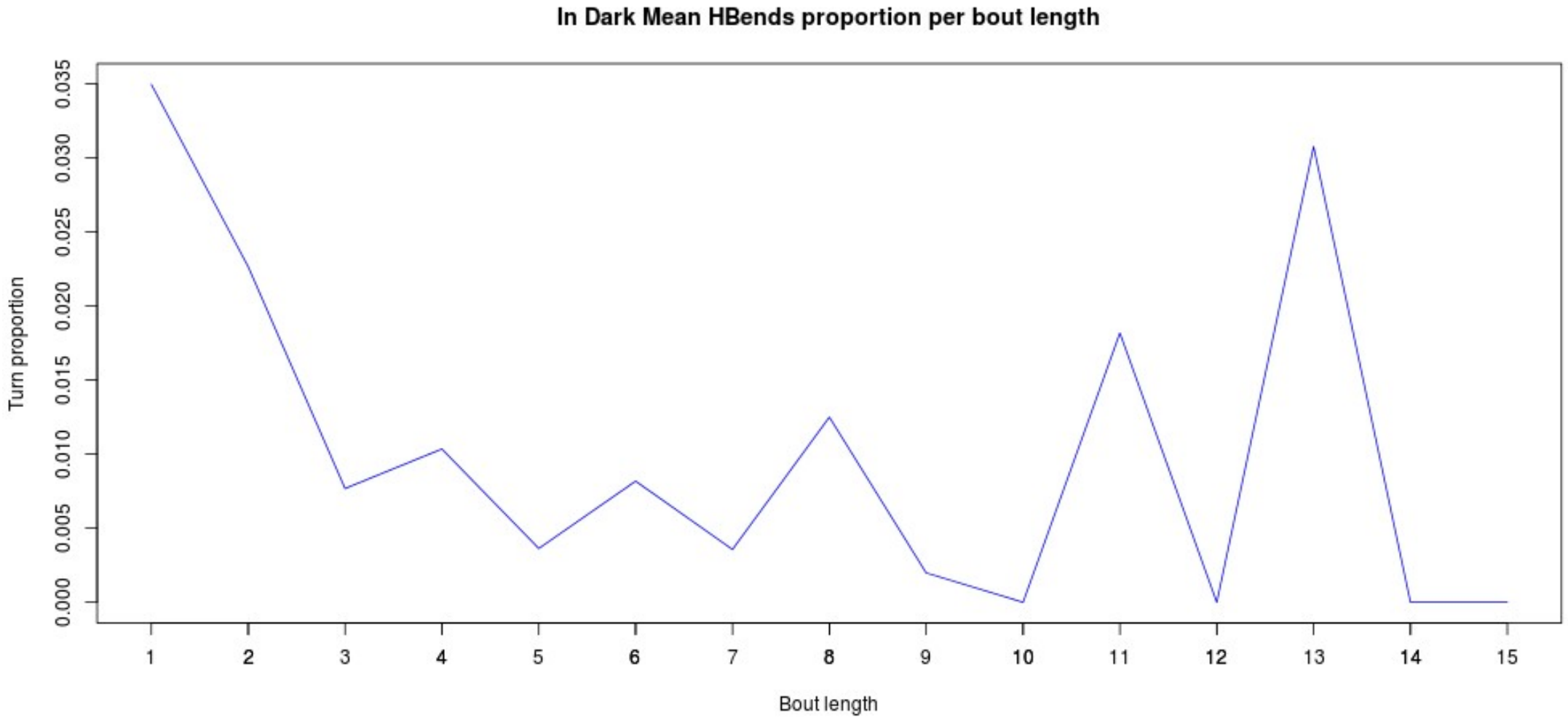
- Dark:


In Dark Mean EBends proportion per bout length
Turn proportion
0.000
0.005
0.010
0.015
0.020
0.025
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
Bout length

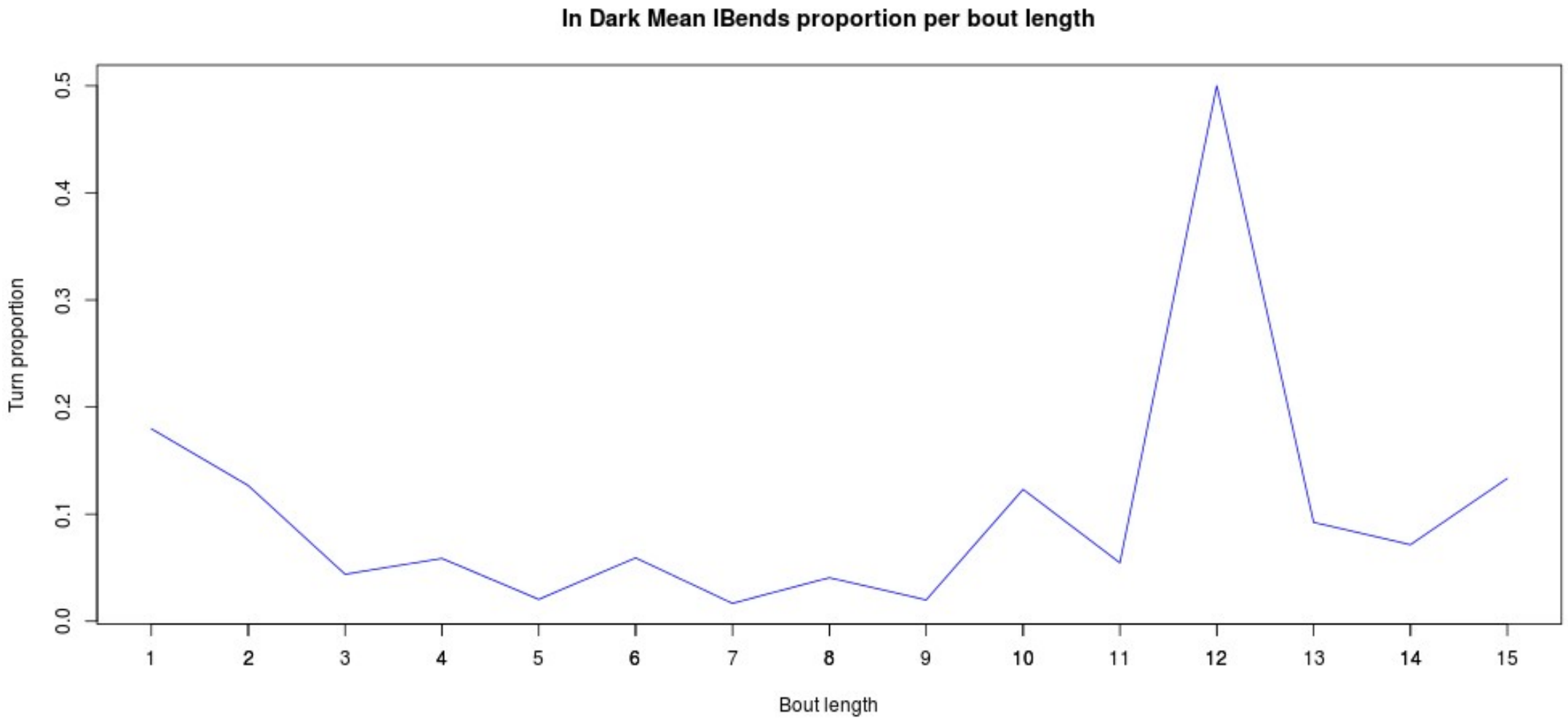
- Dark:


In Dark Mean GBends proportion per bout length
Turn proportion
0.1
0.2
0.3
0.4
0.5
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
Bout length

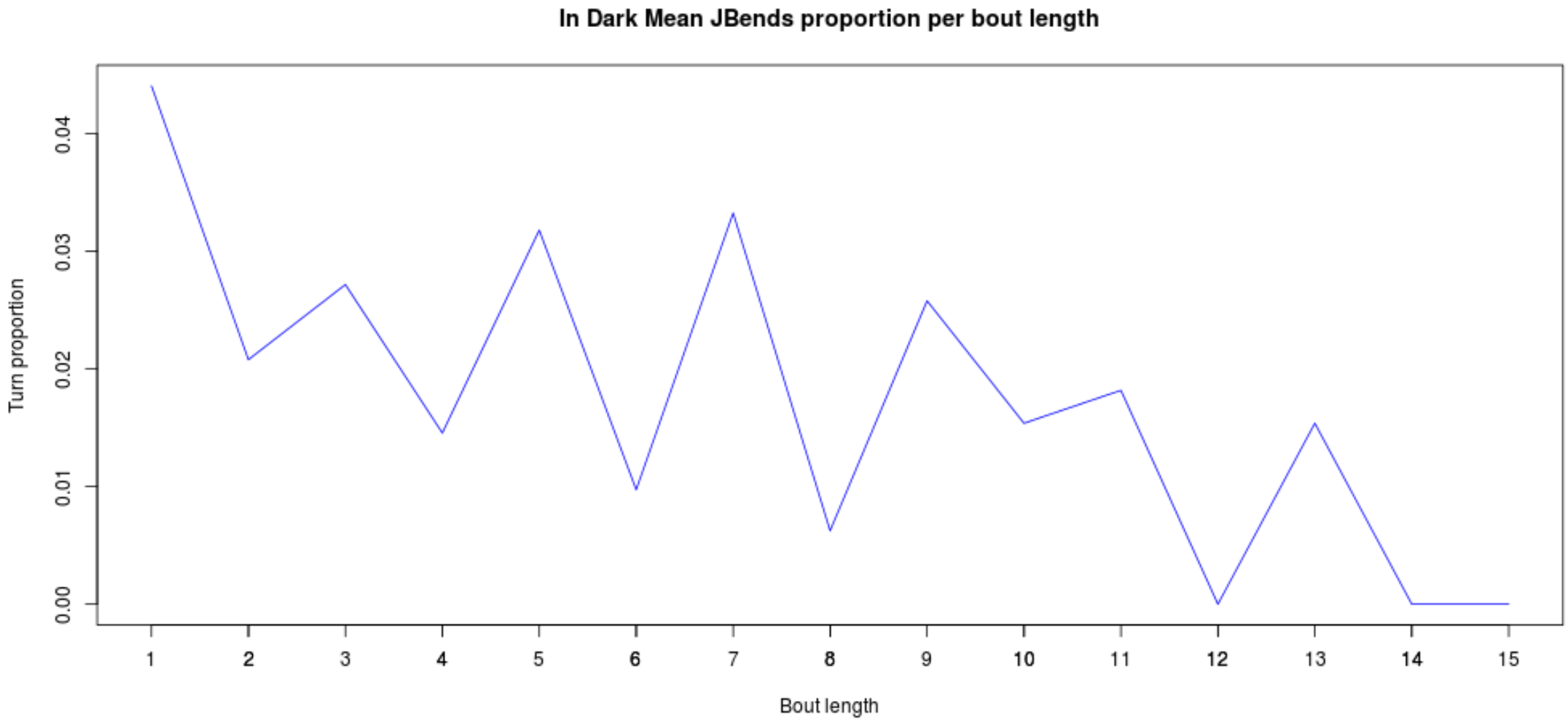
- Dark:


In Dark Mean HBends proportion per bout length
Turn proportion
0.000
0.005
0.010
0.015
0.020
0.025
0.030
0.035
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
Bout length

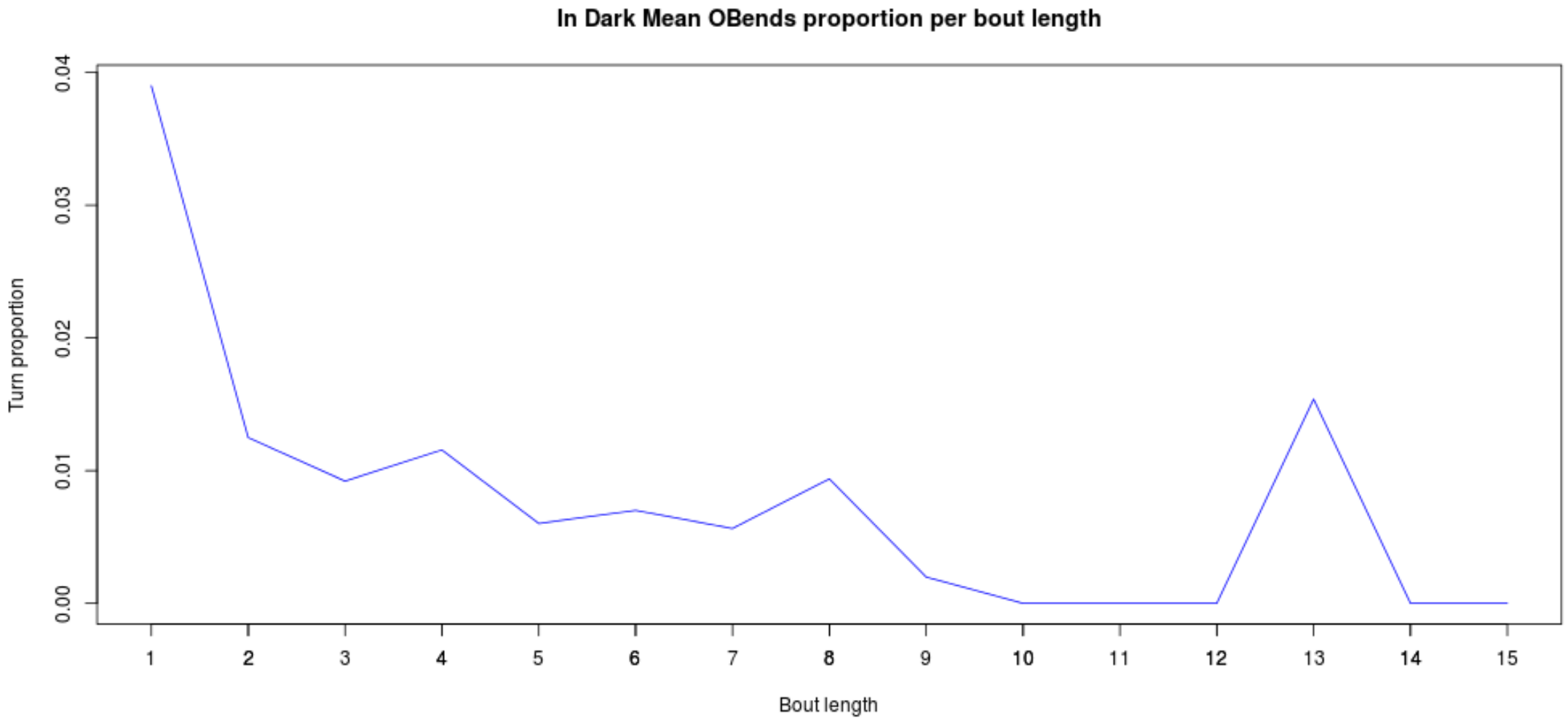
- Dark:


In Dark Mean IBends proportion per bout length
Turn proportion
0.0
0.1
0.2
0.3
0.4
0.5
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
Bout length

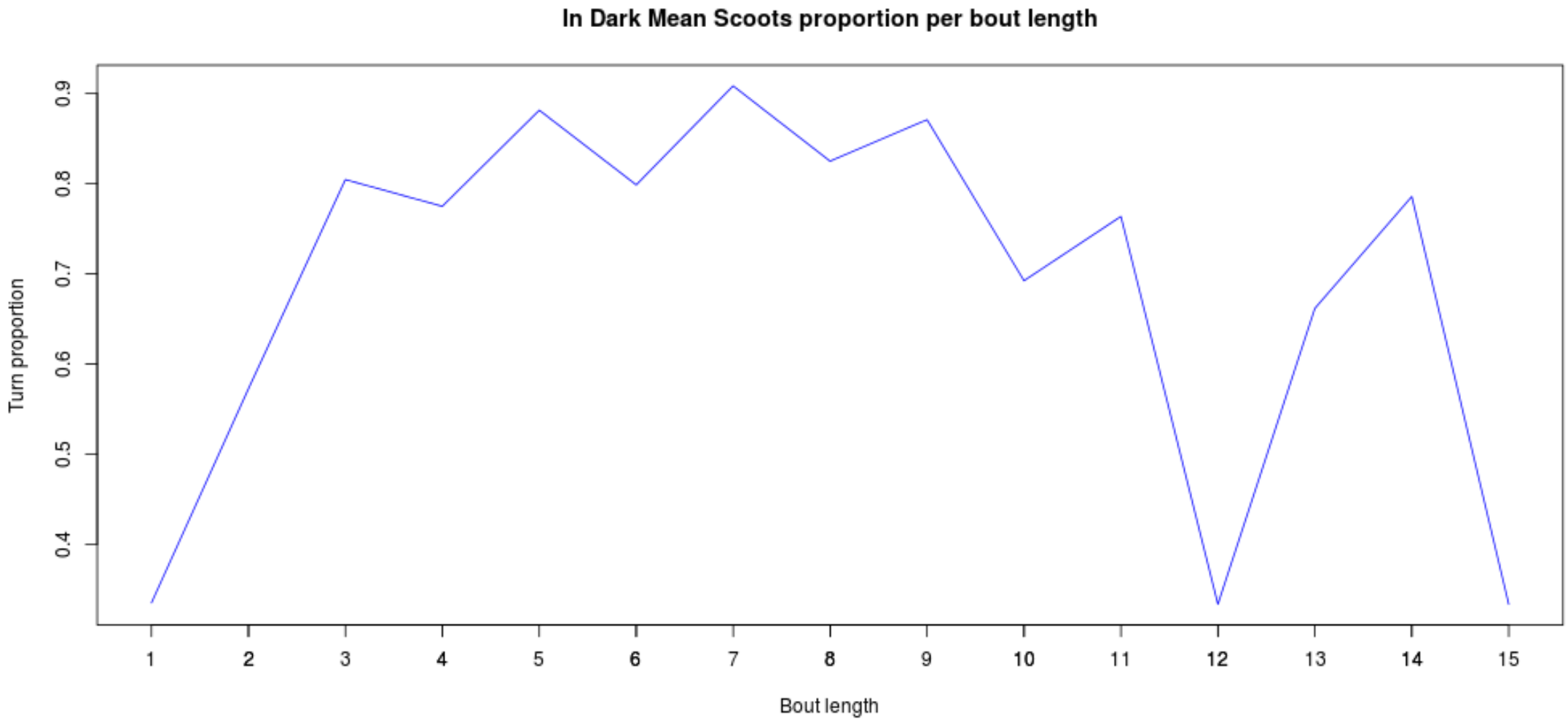
- Dark:


In Dark Mean JBends proportion per bout length
Turn proportion
0.00
0.01
0.02
0.03
0.04
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
Bout length

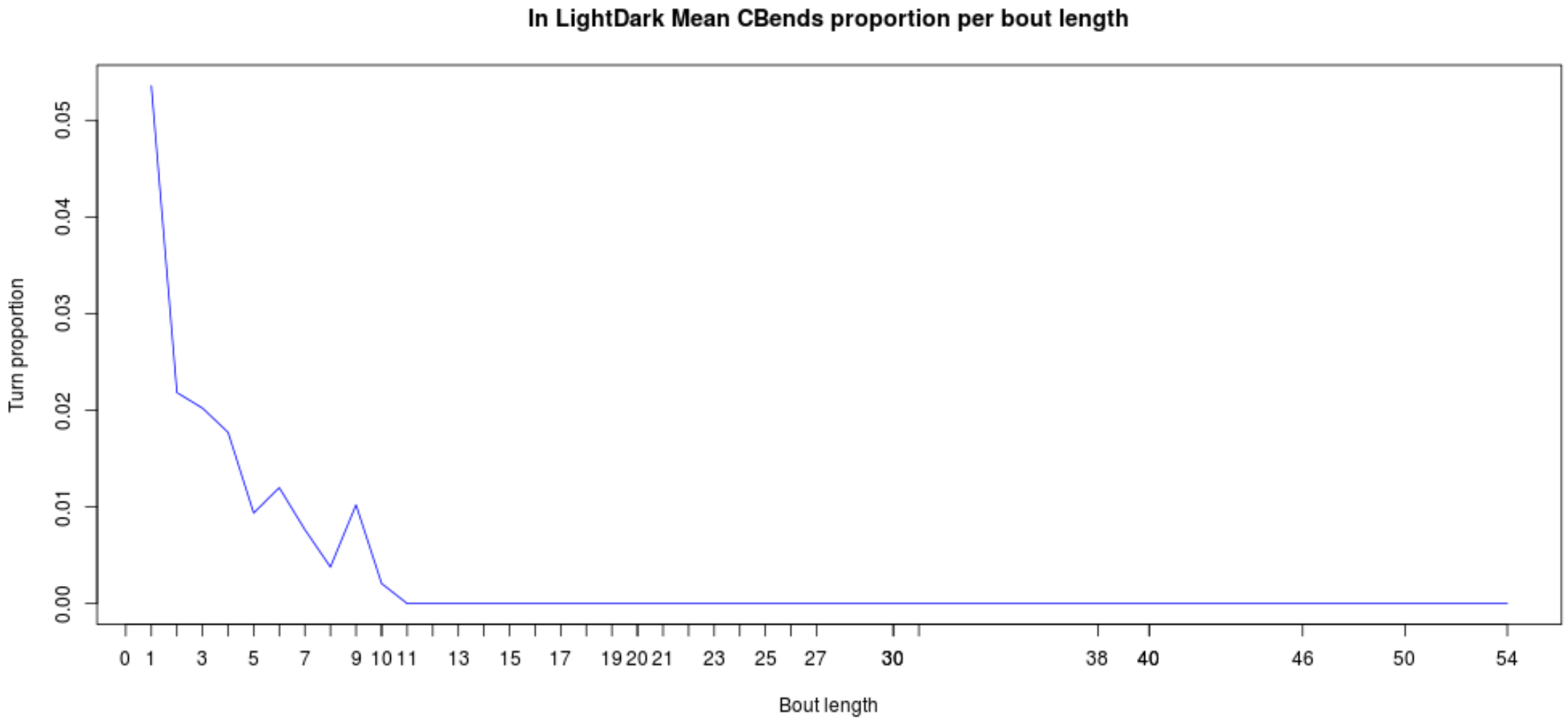
- Dark:


In Dark Mean OBends proportion per bout length
Turn proportion
0.00
0.01
0.02
0.03
0.04
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
Bout length

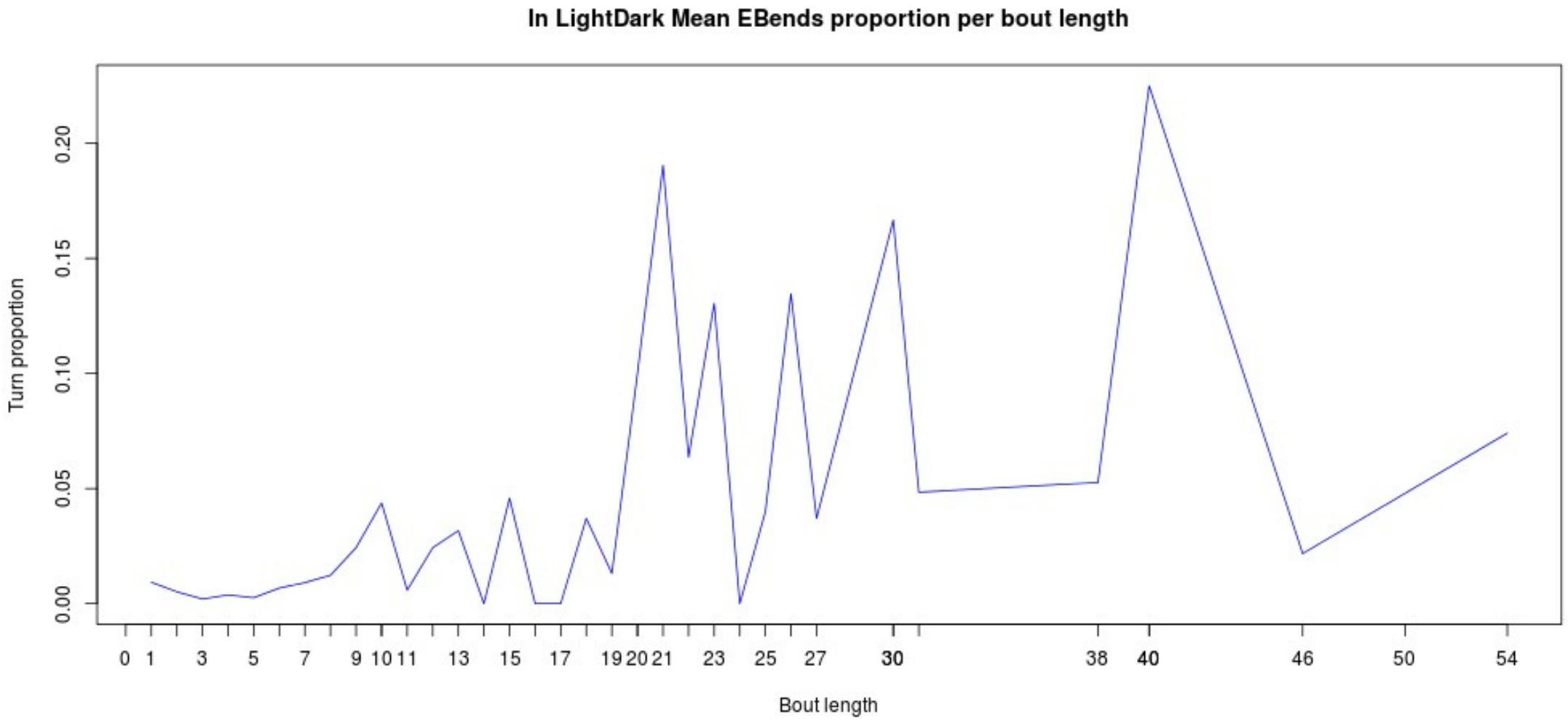
- Dark:


In Dark Mean Scoots proportion per bout length
Turn proportion
0.4
0.5
0.6
0.7
0.8
0.9
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
Bout length

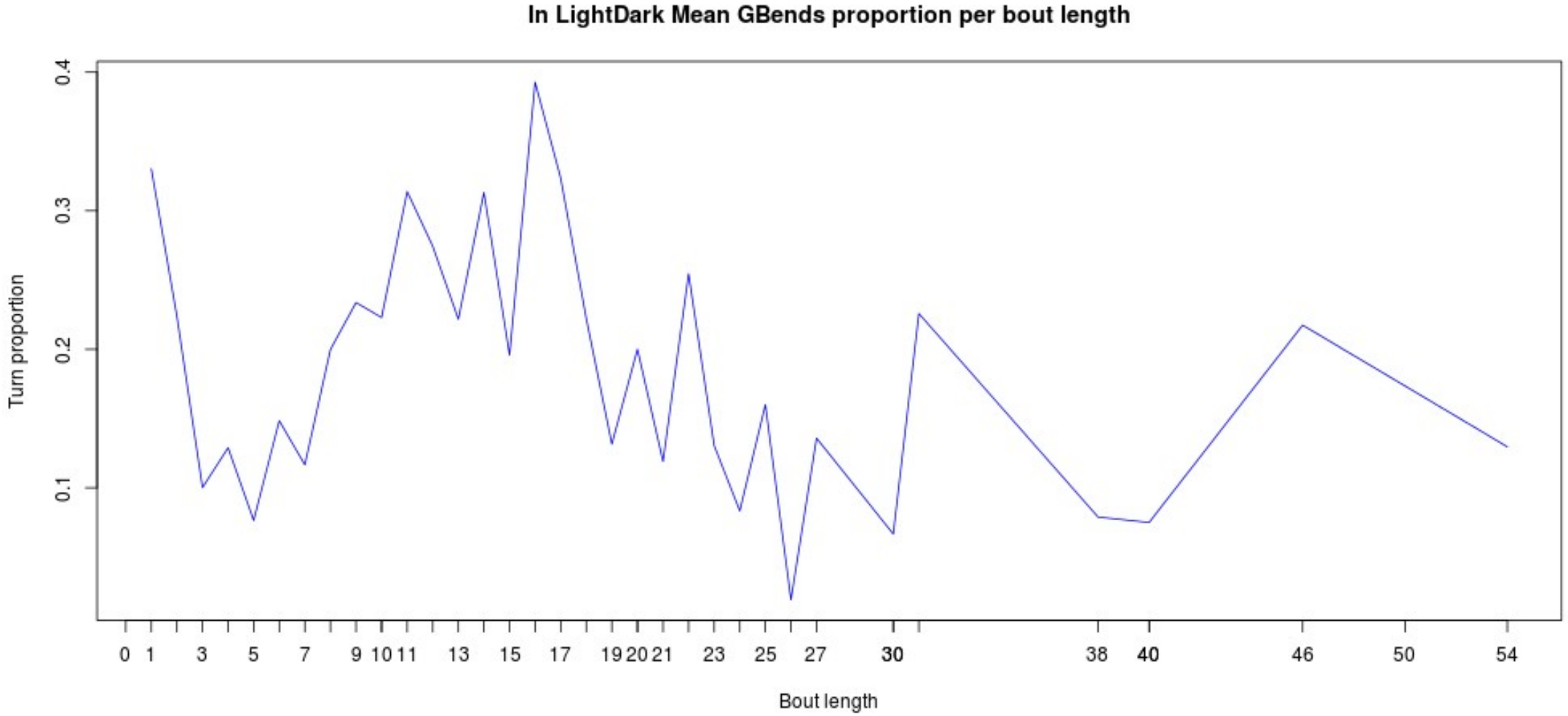
- LightDark:


In LightDark Mean CBends proportion per bout length
Turn proportion
0.00
0.01
0.02
0.03
0.04
0.05
0 1 3 5 7 9 10 11 13 15 17 19 20 21 23 25 27 30 38 40 46 50 54
Bout length

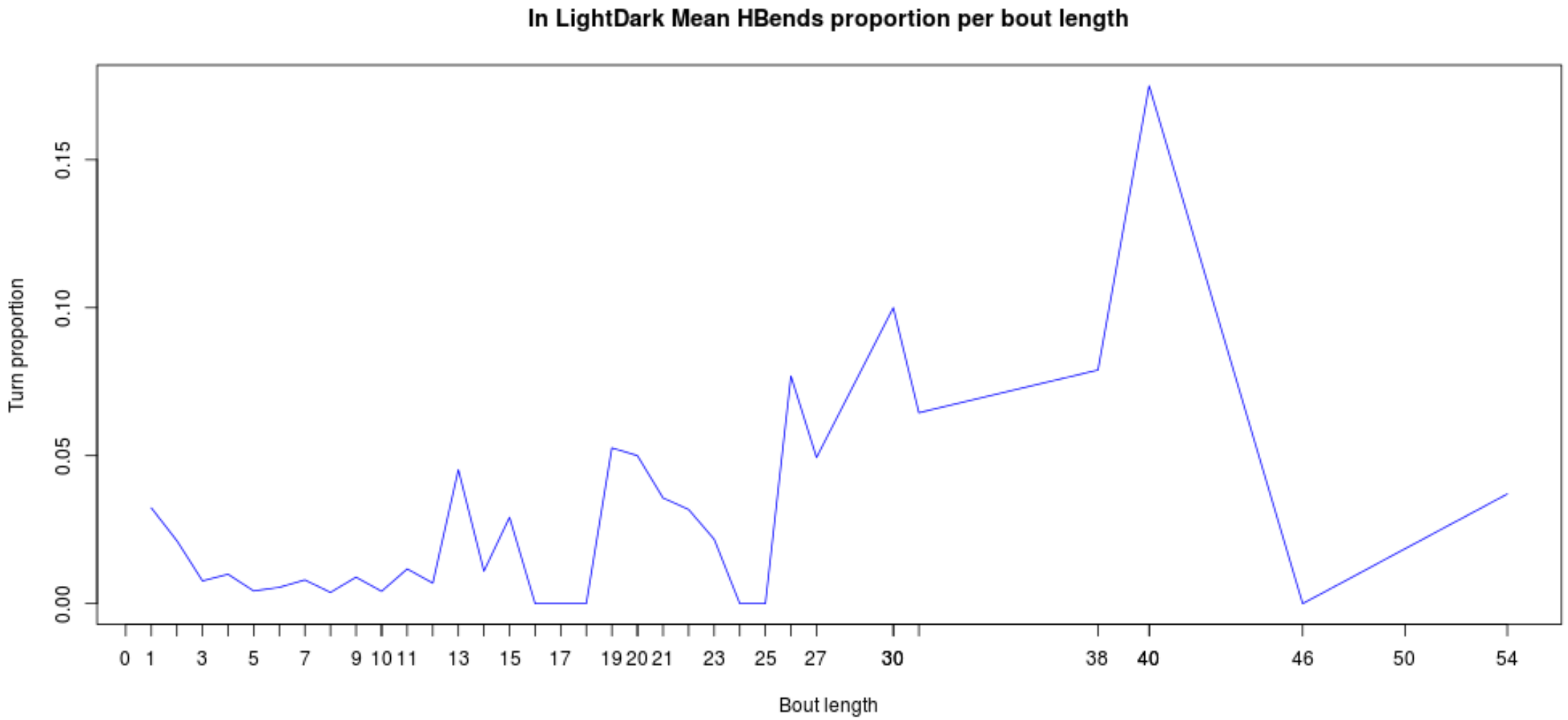
- LightDark:


In LightDark Mean EBends proportion per bout length
Turn proportion
0.00
0.05
0.10
0.15
0.20
0 1 3 5 7 9 10 11 13 15 17 19 20 21 23 25 27 30 38 40 46 50 54
Bout length

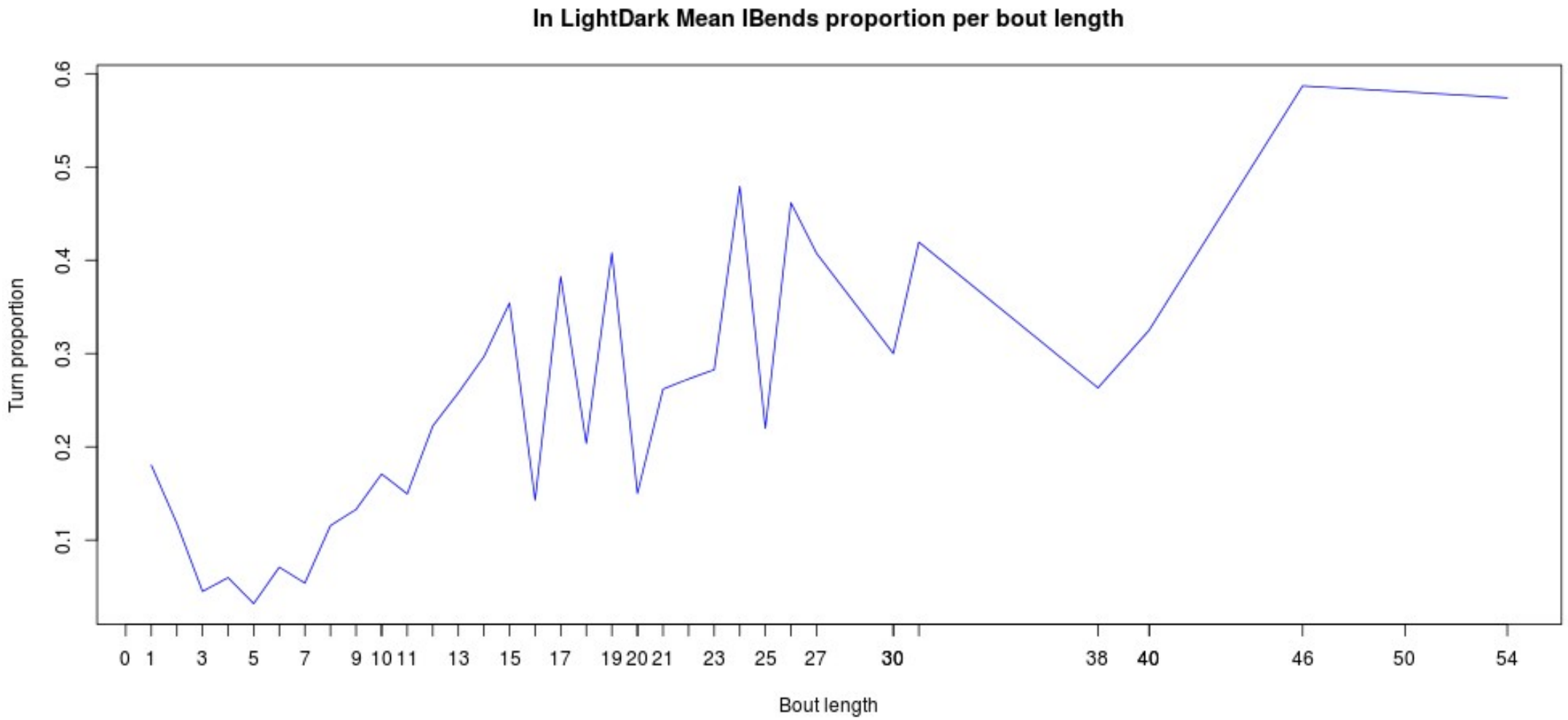
- LightDark:


In LightDark Mean GBends proportion per bout length
Turn proportion
0.1
0.2
0.3
0.4
0 1 3 5 7 9 10 11 13 15 17 19 20 21 23 25 27 30 38 40 46 50 54
Bout length

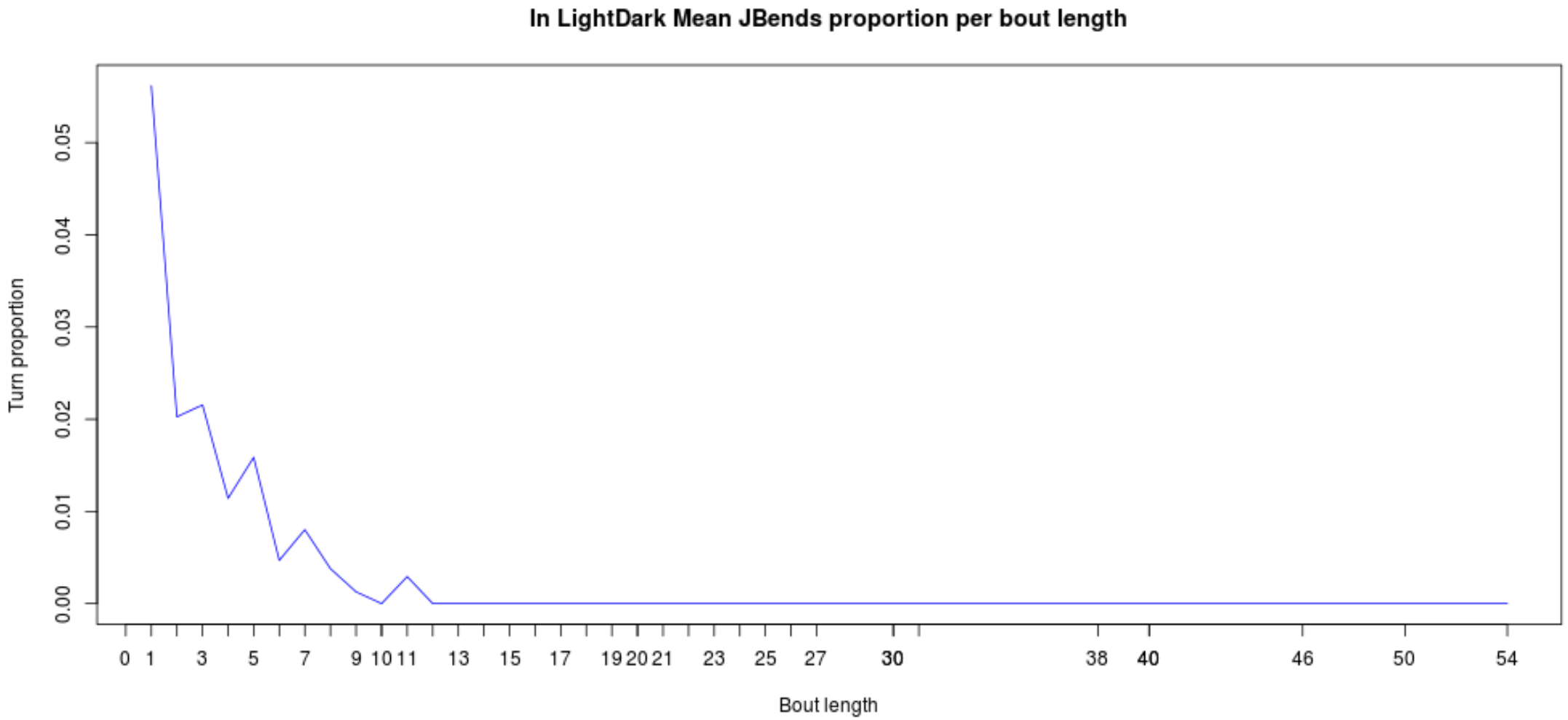
- LightDark:


In LightDark Mean HBends proportion per bout length
Turn proportion
0.00
0.05
0.10
0.15
0 1 3 5 7 9 10 11 13 15 17 19 20 21 23 25 27 30 38 40 46 50 54
Bout length

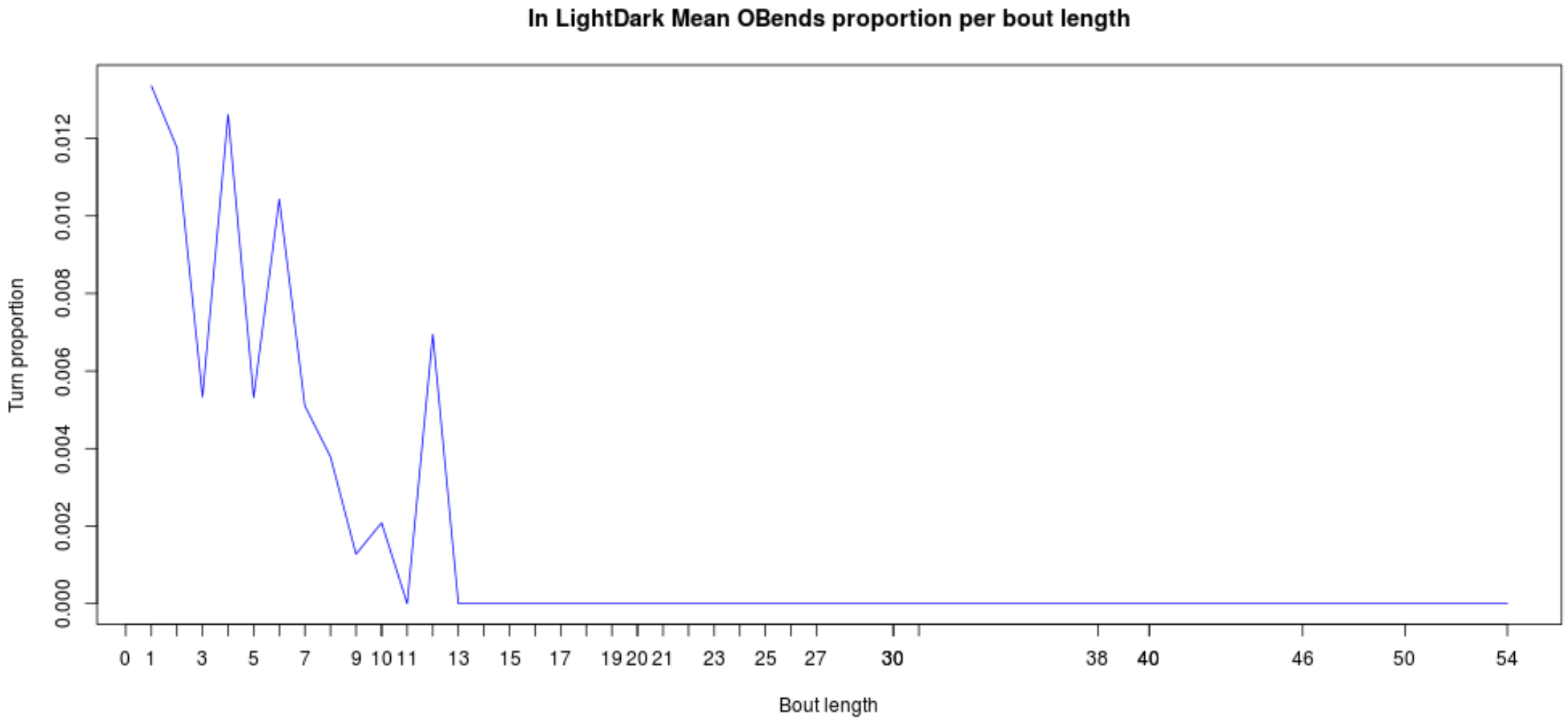
- LightDark:


In LightDark Mean IBends proportion per bout length
Turn proportion
0.1
0.2
0.3
0.4
0.5
0.6
0 1 3 5 7 9 10 11 13 15 17 19 20 21 23 25 27 30 38 40 46 50 54
Bout length

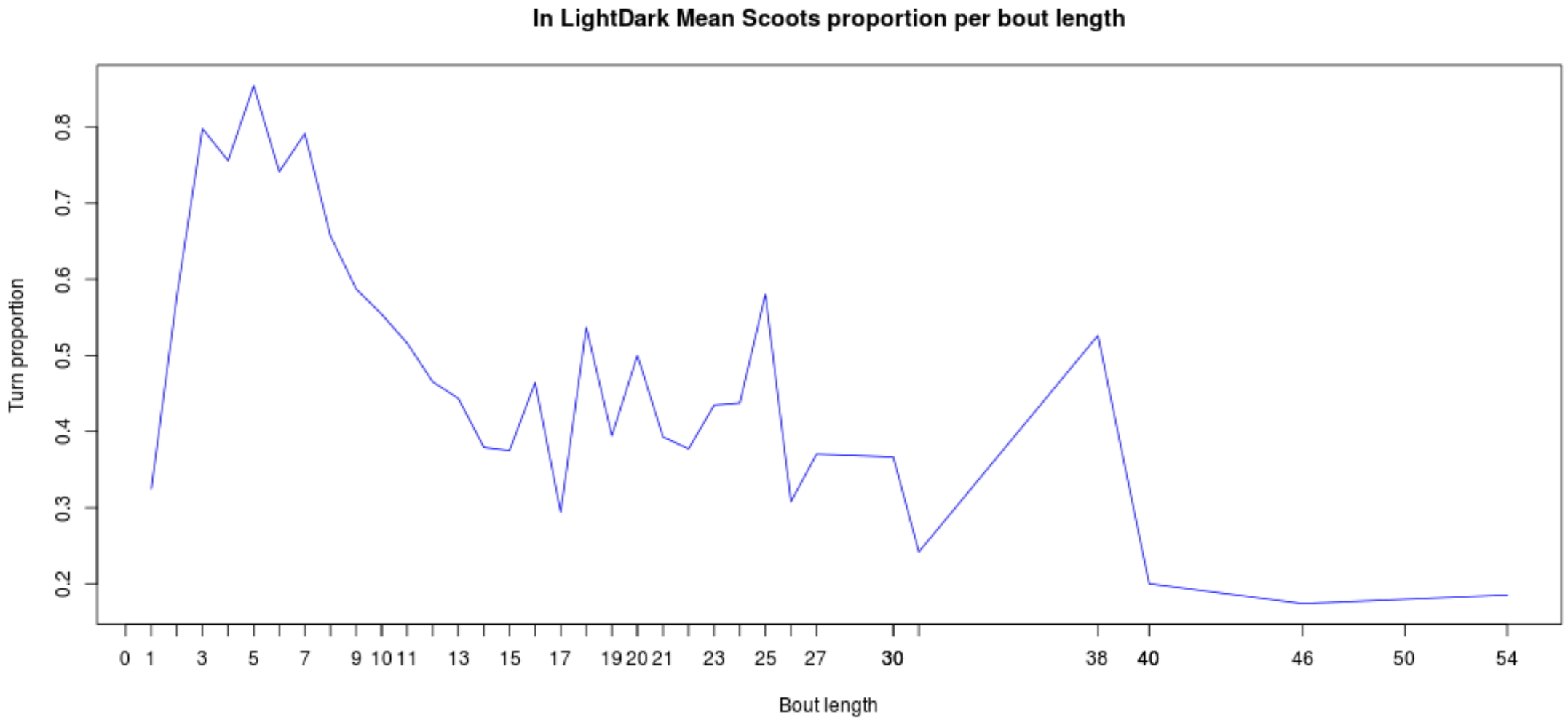
- LightDark:


In LightDark Mean JBends proportion per bout length
Turn proportion
0.00
0.01
0.02
0.03
0.04
0.05
0 1 3 5 7 9 10 11 13 15 17 19 20 21 23 25 27 30 38 40 46 50 54
Bout length

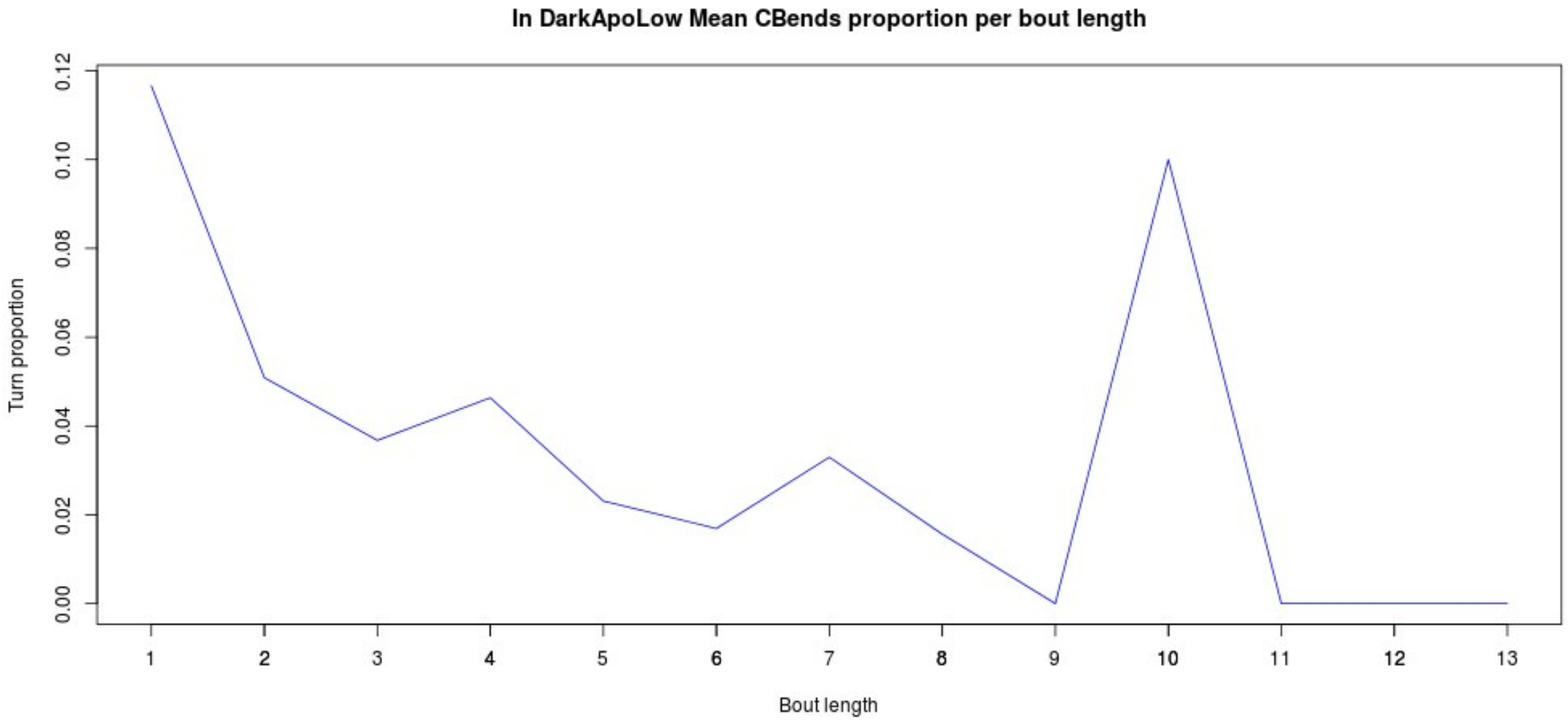
- LightDark:


In LightDark Mean OBends proportion per bout length
Turn proportion
0.000
0.002
0.004
0.006
0.008
0.010
0.012
0 1 3 5 7 9 10 11 13 15 17 19 20 21 23 25 27 30 38 40 46 50 54
Bout length

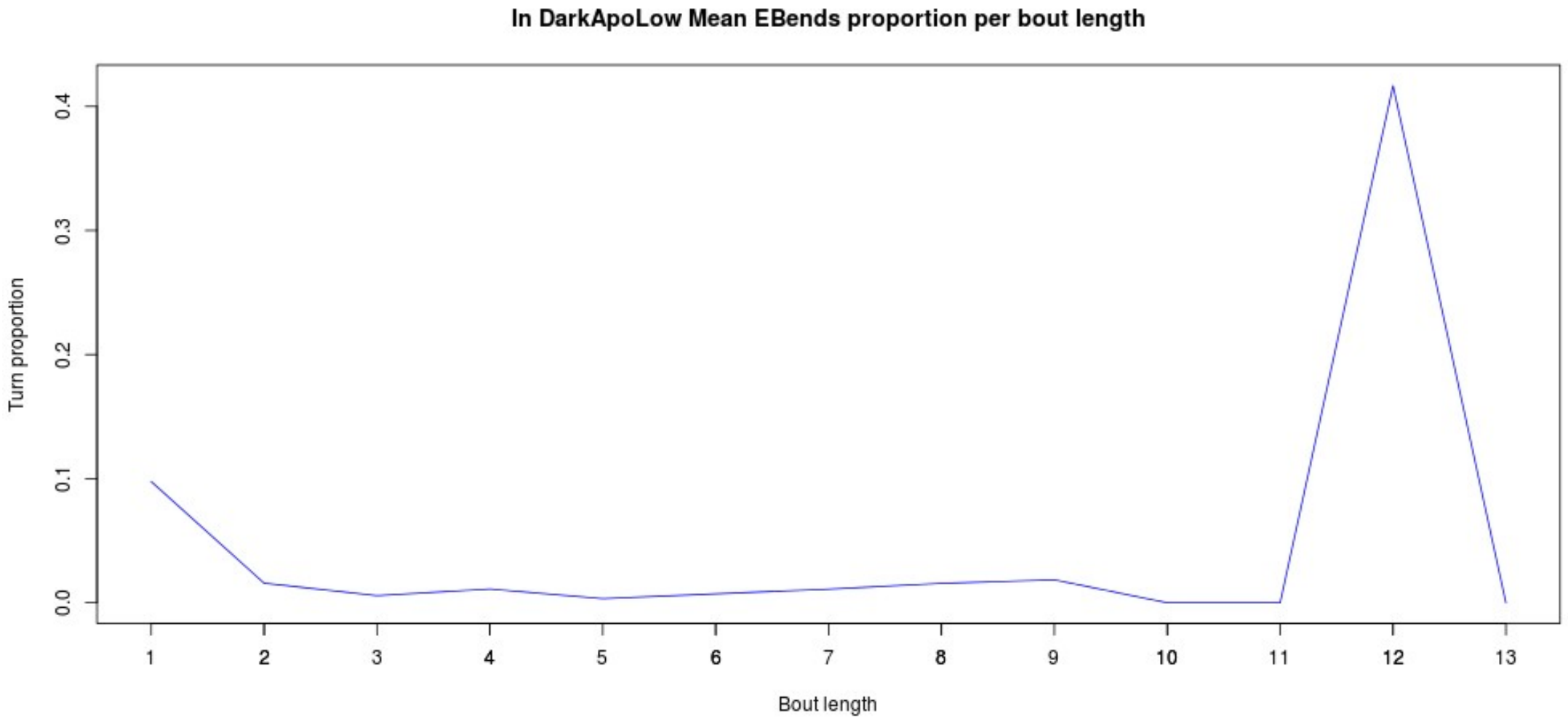
- LightDark:


In LightDark Mean Scoots proportion per bout length
Turn proportion
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0 1 3 5 7 9 10 11 13 15 17 19 20 21 23 25 27 30 38 40 46 50 54
Bout length

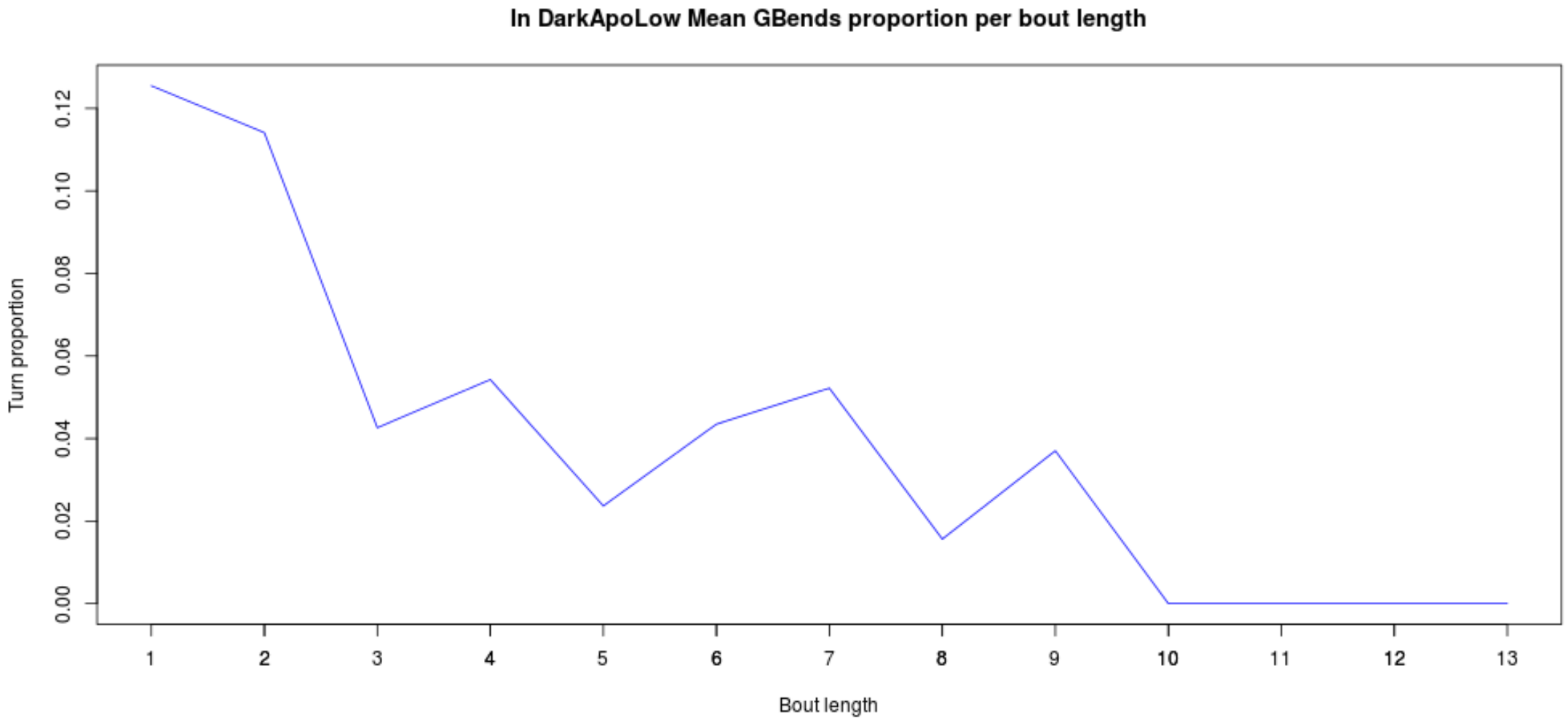
- (Dark)ApoLow:


In DarkApoLow Mean CBends proportion per bout length
Turn proportion
0.00
0.02
0.04
0.06
0.08
0.10
0.12
1
2
3
4
5
6
7
8
9
10
11
12
13
Bout length

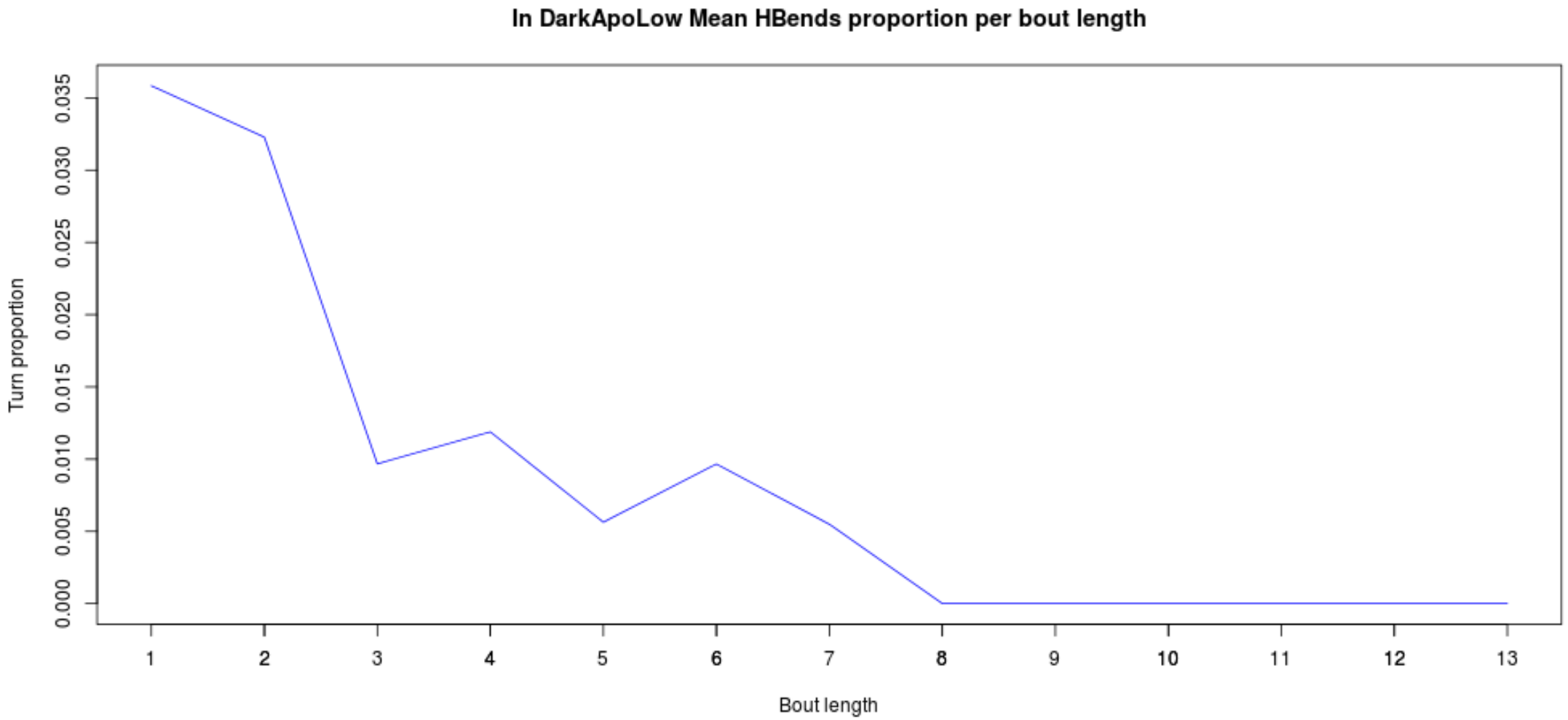
- (Dark)ApoLow:


ln DarkApoLow Mean EBends proportion per bout length
Turn proportion
0.0
0.1
0.2
0.3
0.4
1
2
3
4
5
6
7
8
9
10
11
12
13
Bout length

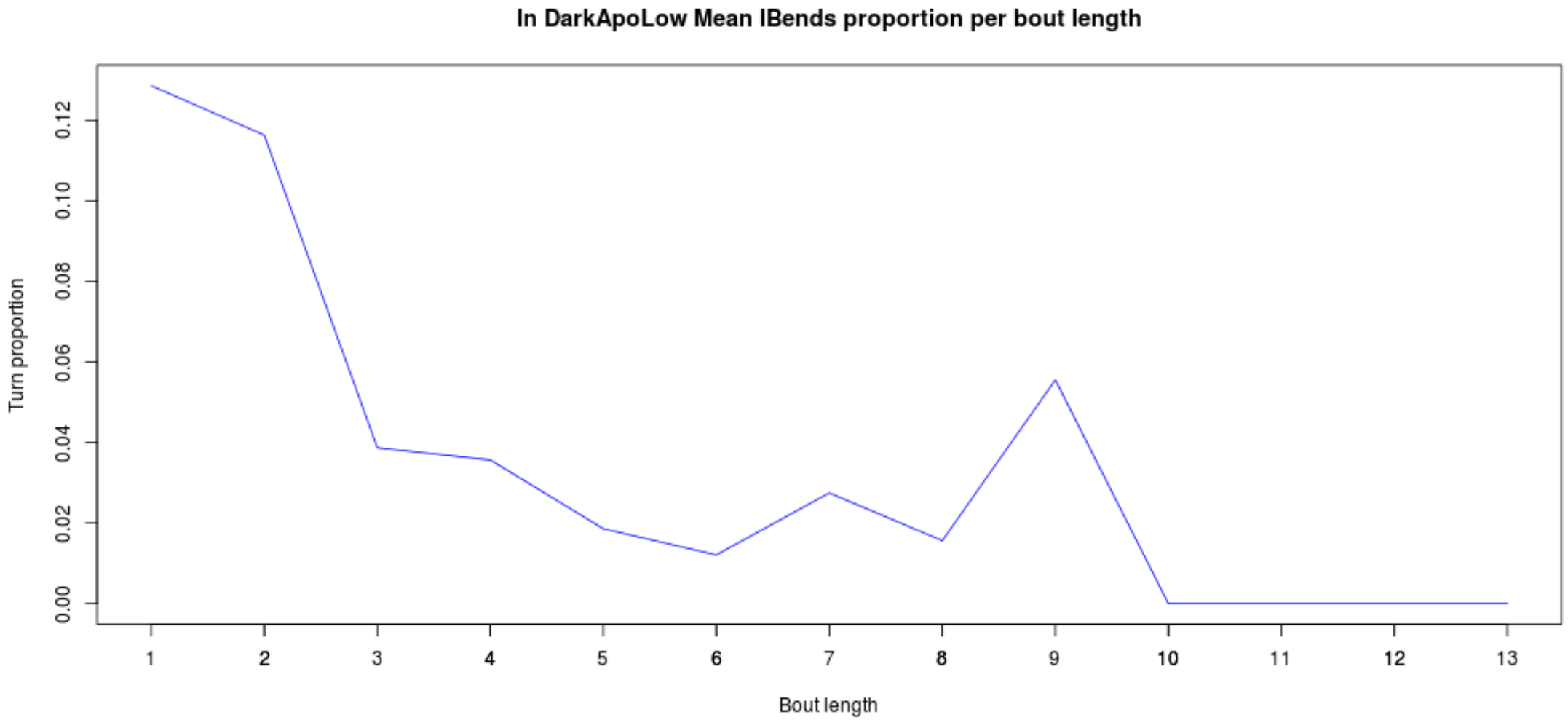
- (Dark)ApoLow:


In DarkApoLow Mean GBends proportion per bout length
Turn proportion
0.00
0.02
0.04
0.06
0.08
0.10
0.12
1
2
3
4
5
6
7
8
9
10
11
12
13
Bout length

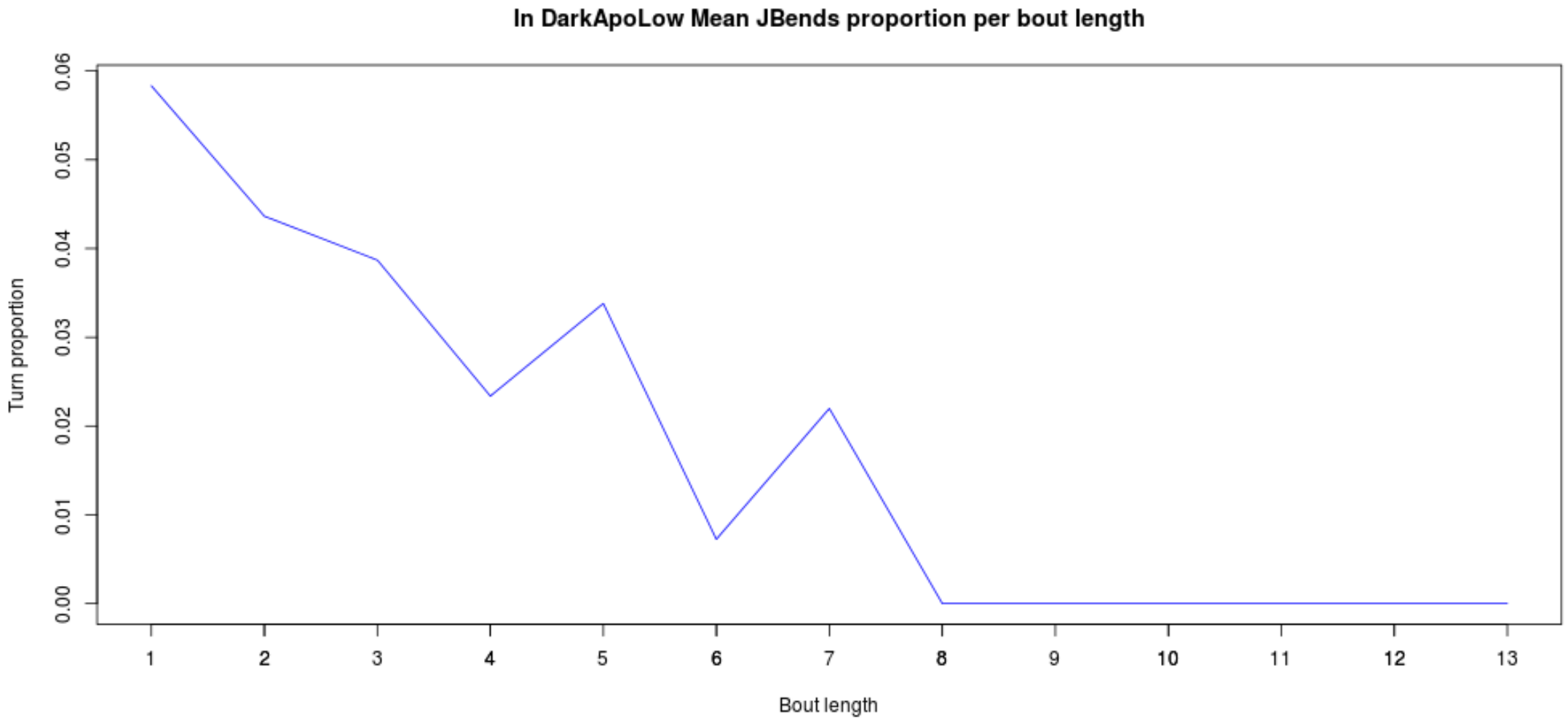
- (Dark)ApoLow:


ln DarkApoLow Mean HBends proportion per bout length
Turn proportion
0.000
0.005
0.010
0.015
0.020
0.025
0.030
0.035
1
2
3
4
5
6
7
8
9
10
11
12
13
Bout length

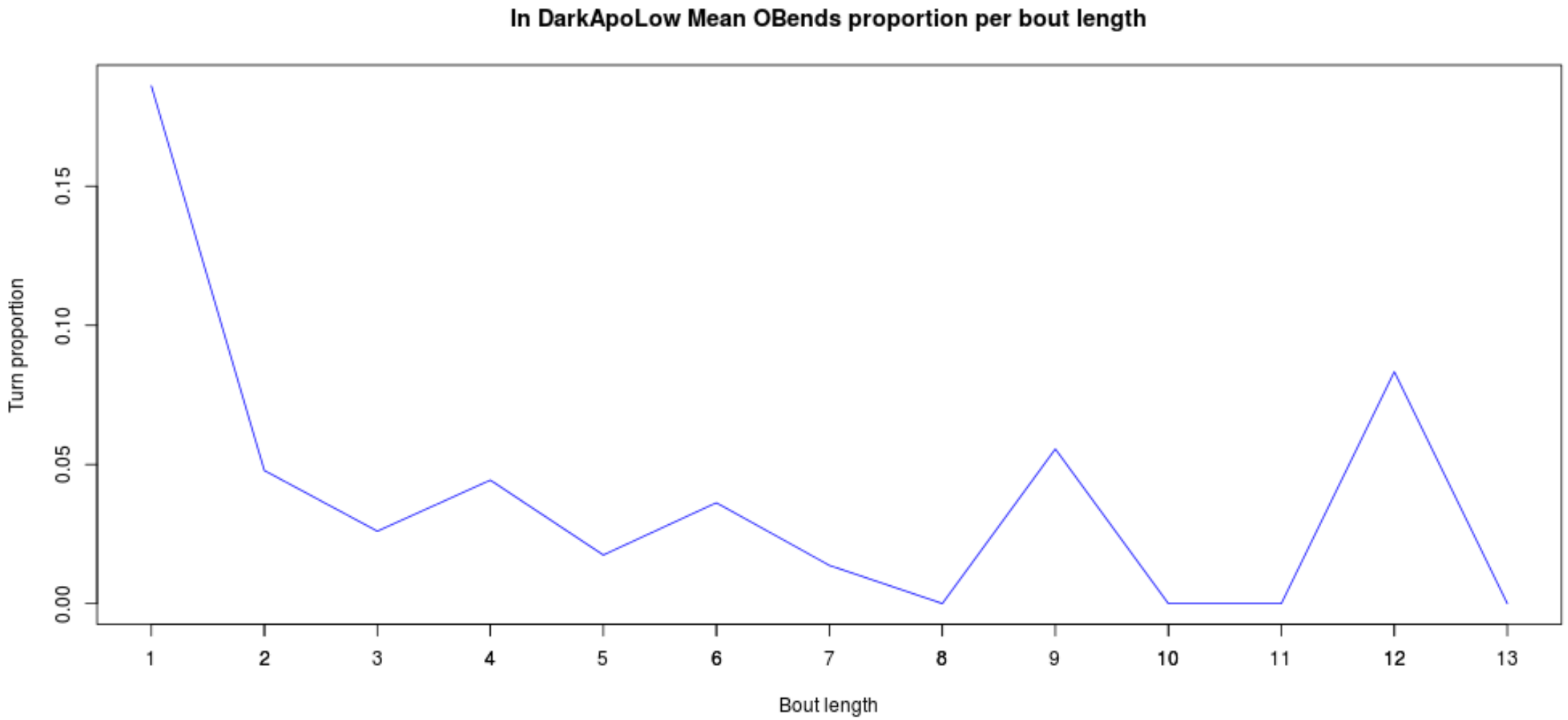
- (Dark)ApoLow:


ln DarkApoLow Mean lBends proportion per bout length
Turn proportion
0.00
0.02
0.04
0.06
0.08
0.10
0.12
1
2
3
4
5
6
7
8
9
10
11
12
13
Bout length

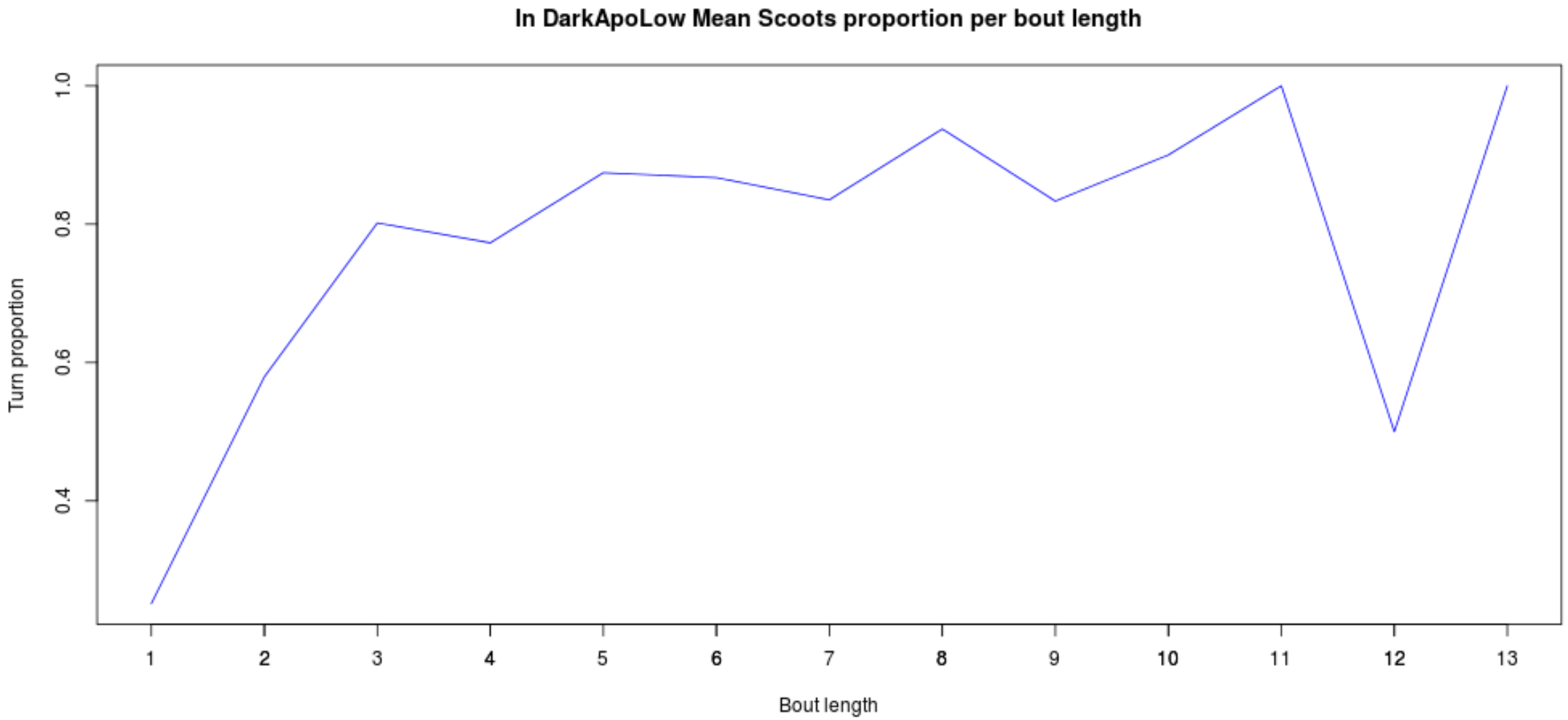
- (Dark)ApoLow:


In DarkApoLow Mean JBends proportion per bout length
Turn proportion
0.00
0.01
0.02
0.03
0.04
0.05
0.06
1
2
3
4
5
6
7
8
9
10
11
12
13
Bout length

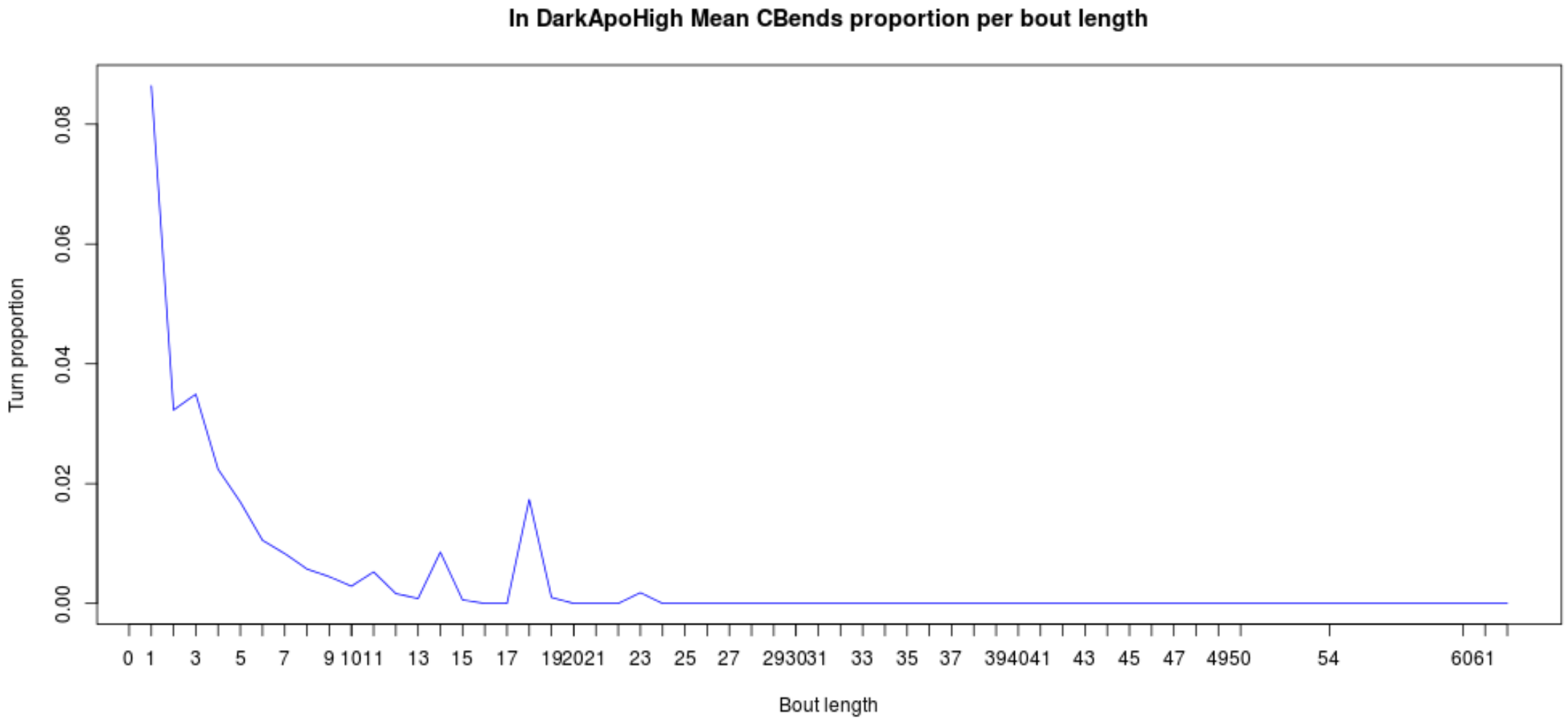
- (Dark)ApoLow:


In DarkApoLow Mean OBends proportion per bout length
Turn proportion
0.00
0.05
0.10
0.15
1
2
3
4
5
6
7
8
9
10
11
12
13
Bout length

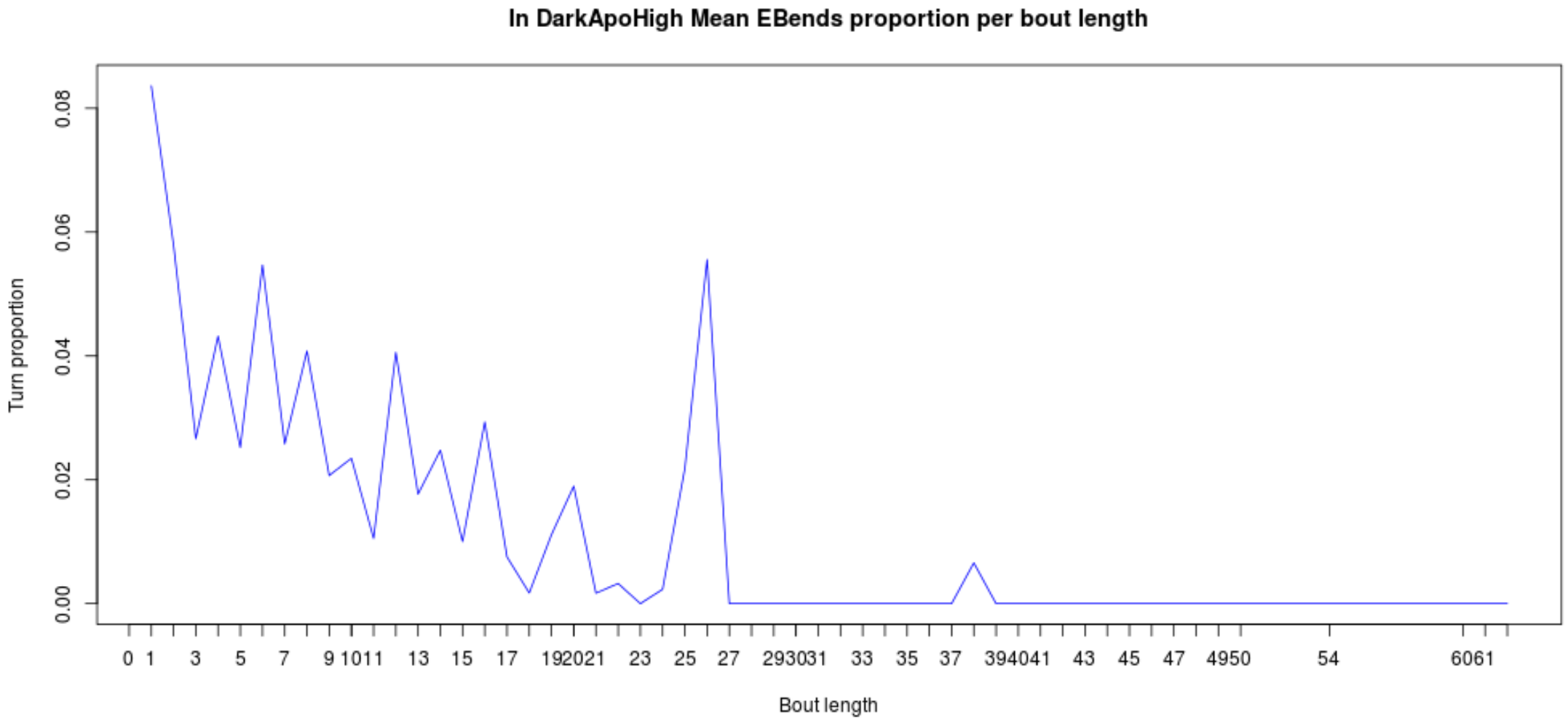
- (Dark)ApoLow:


ln DarkApoLow Mean Scoots proportion per bout length
Turn proportion
0.4
0.6
0.8
1.0
1
2
3
4
5
6
7
8
9
10
11
12
13
Bout length

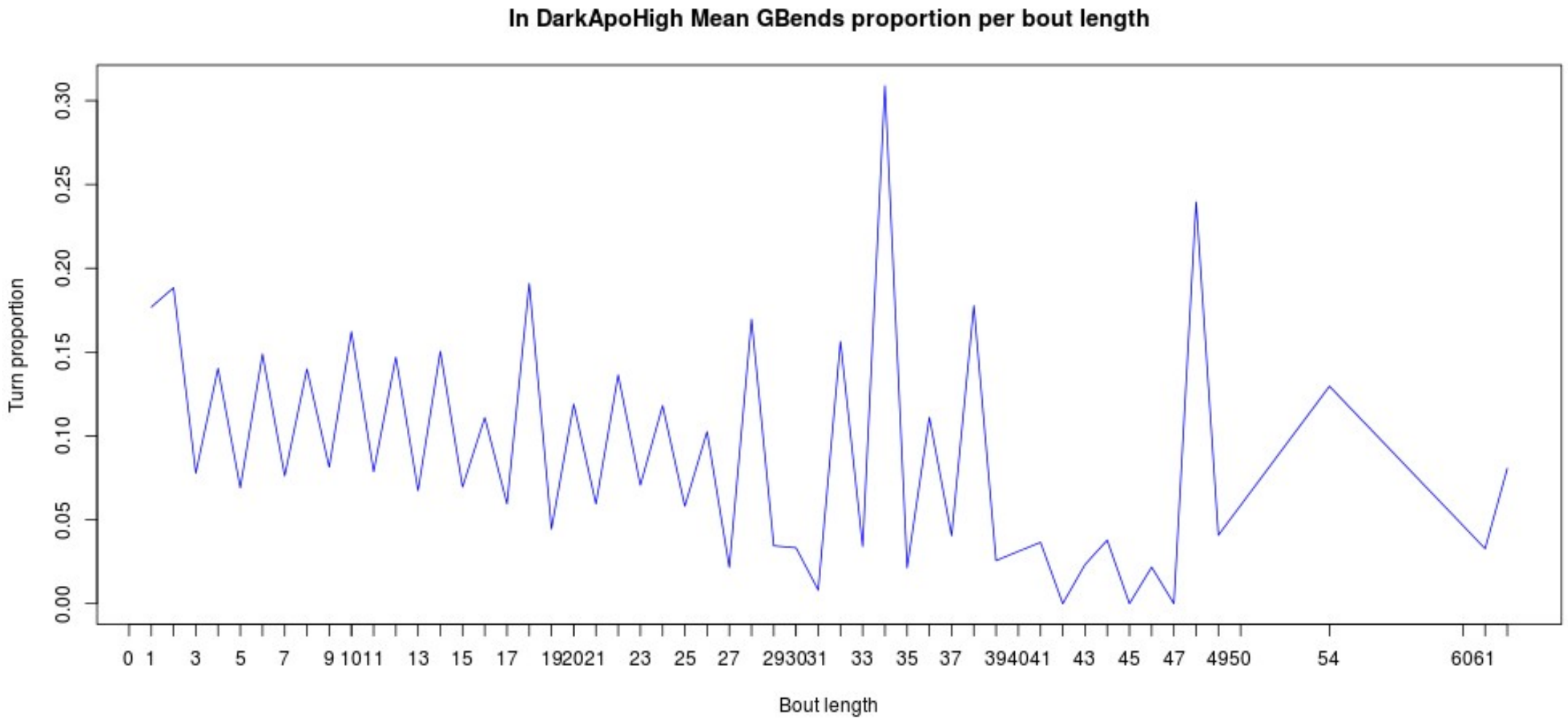
- (Dark)ApoHigh:



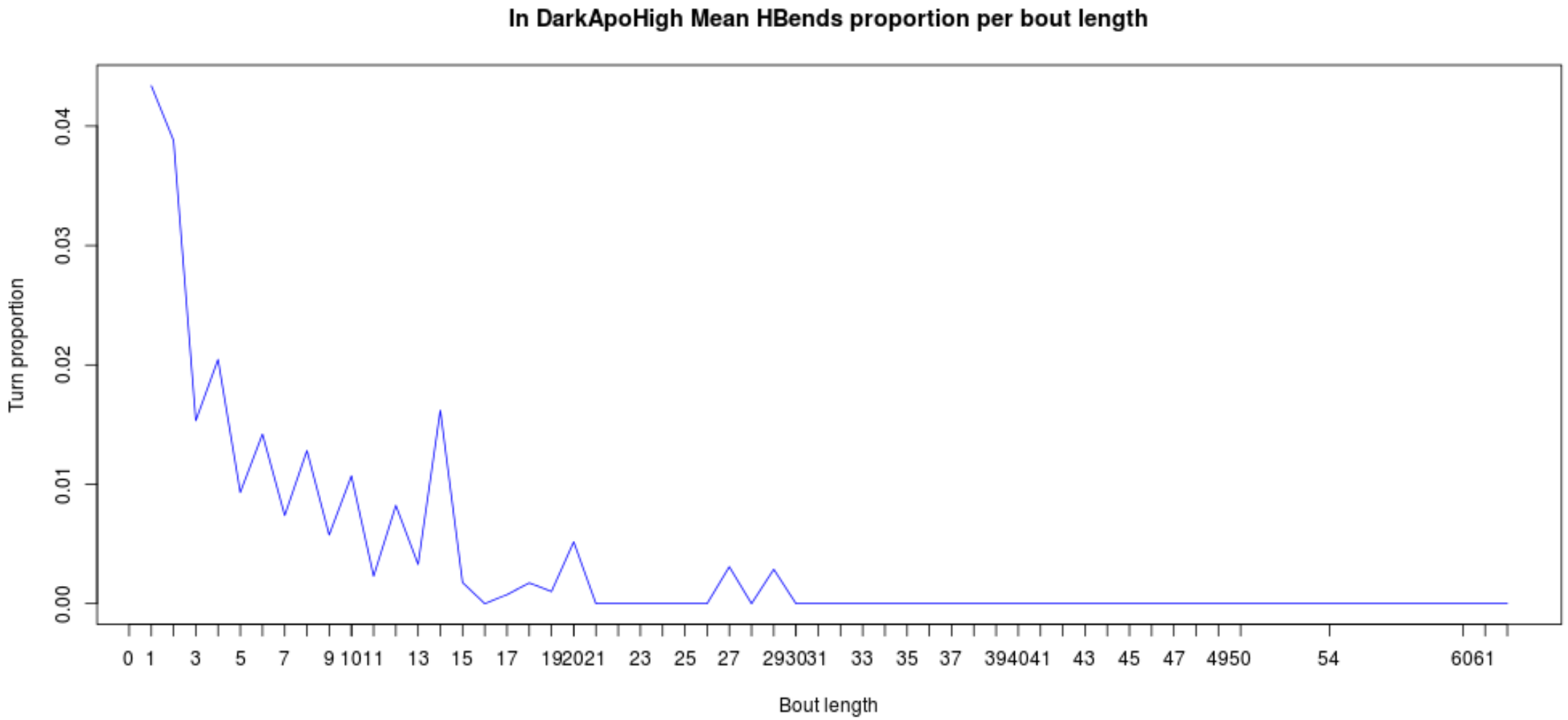
- (Dark)ApoHigh:



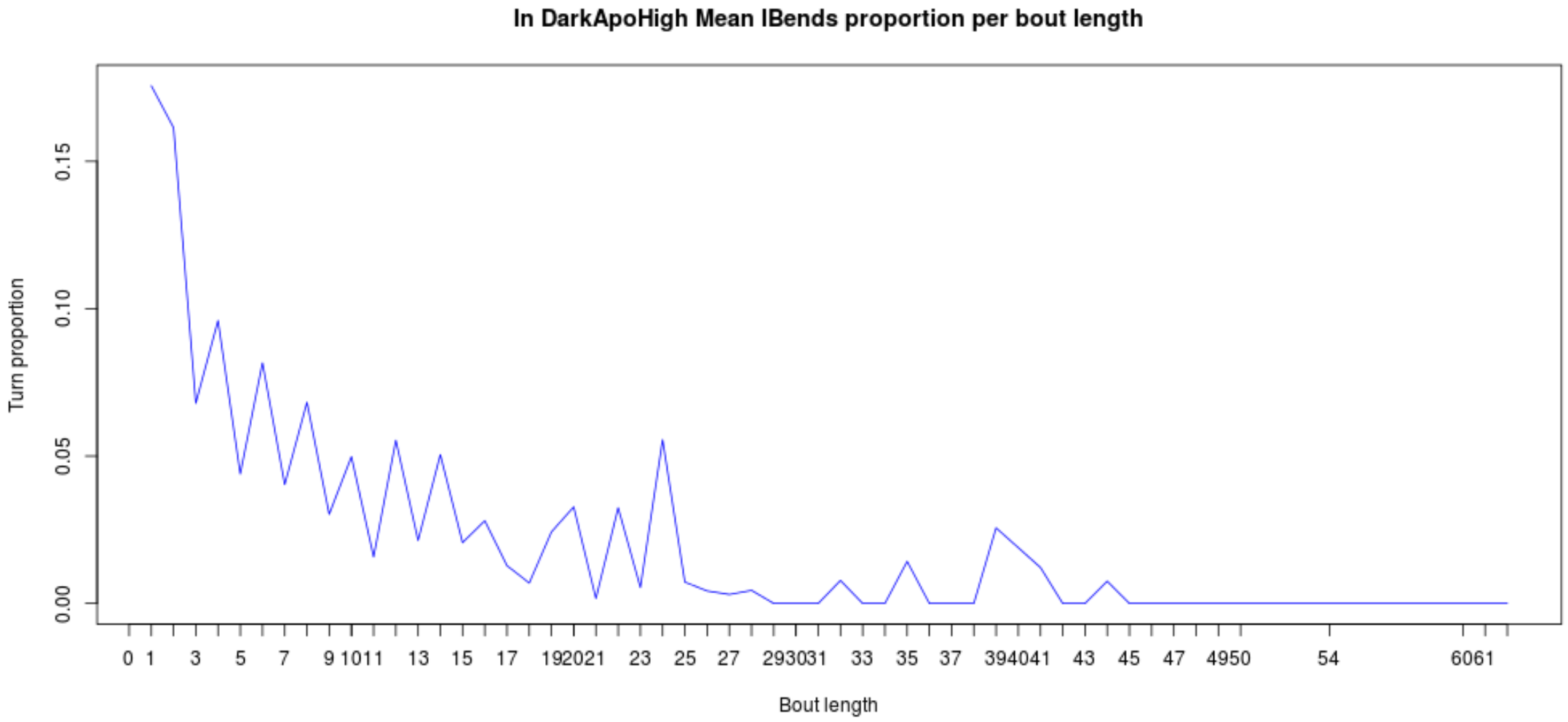
- (Dark)ApoHigh:



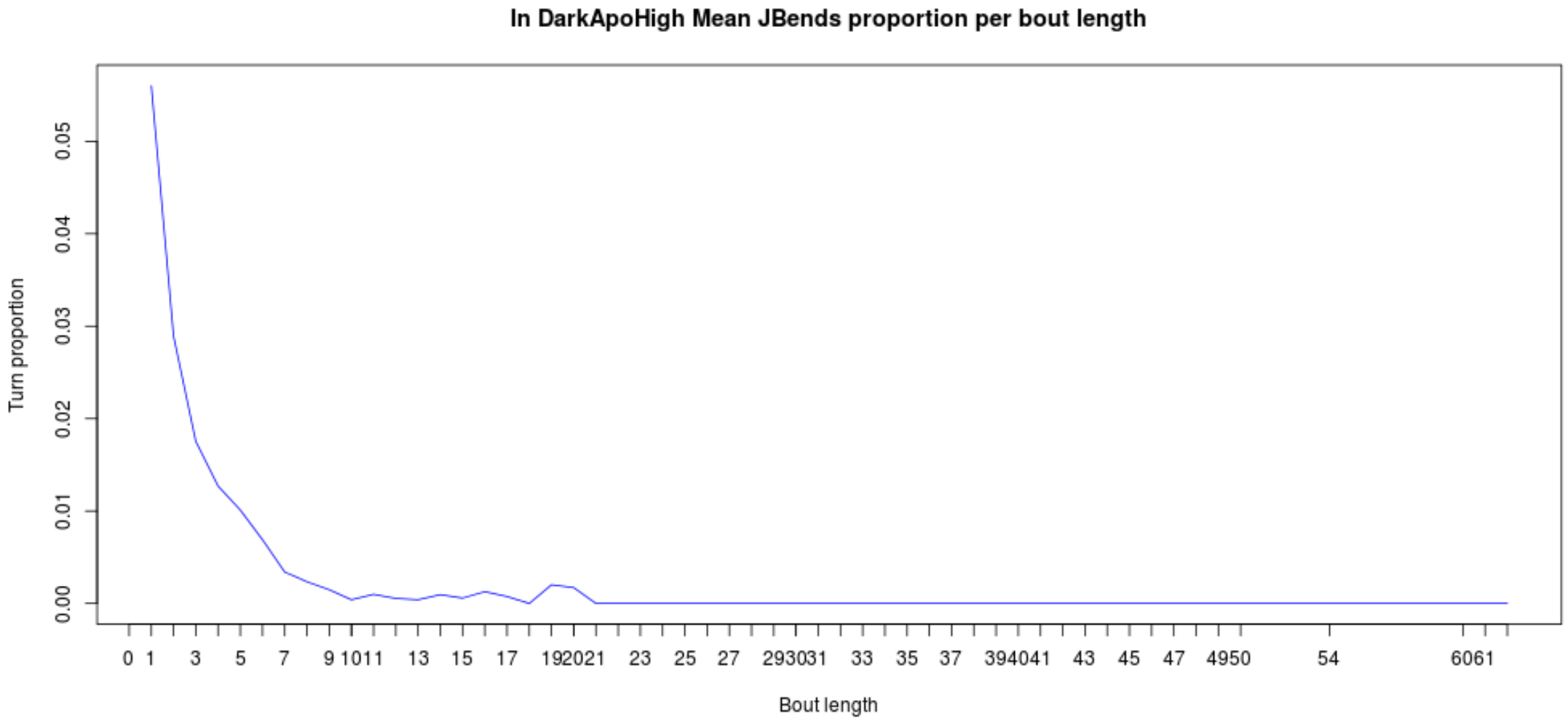
- (Dark)ApoHigh:



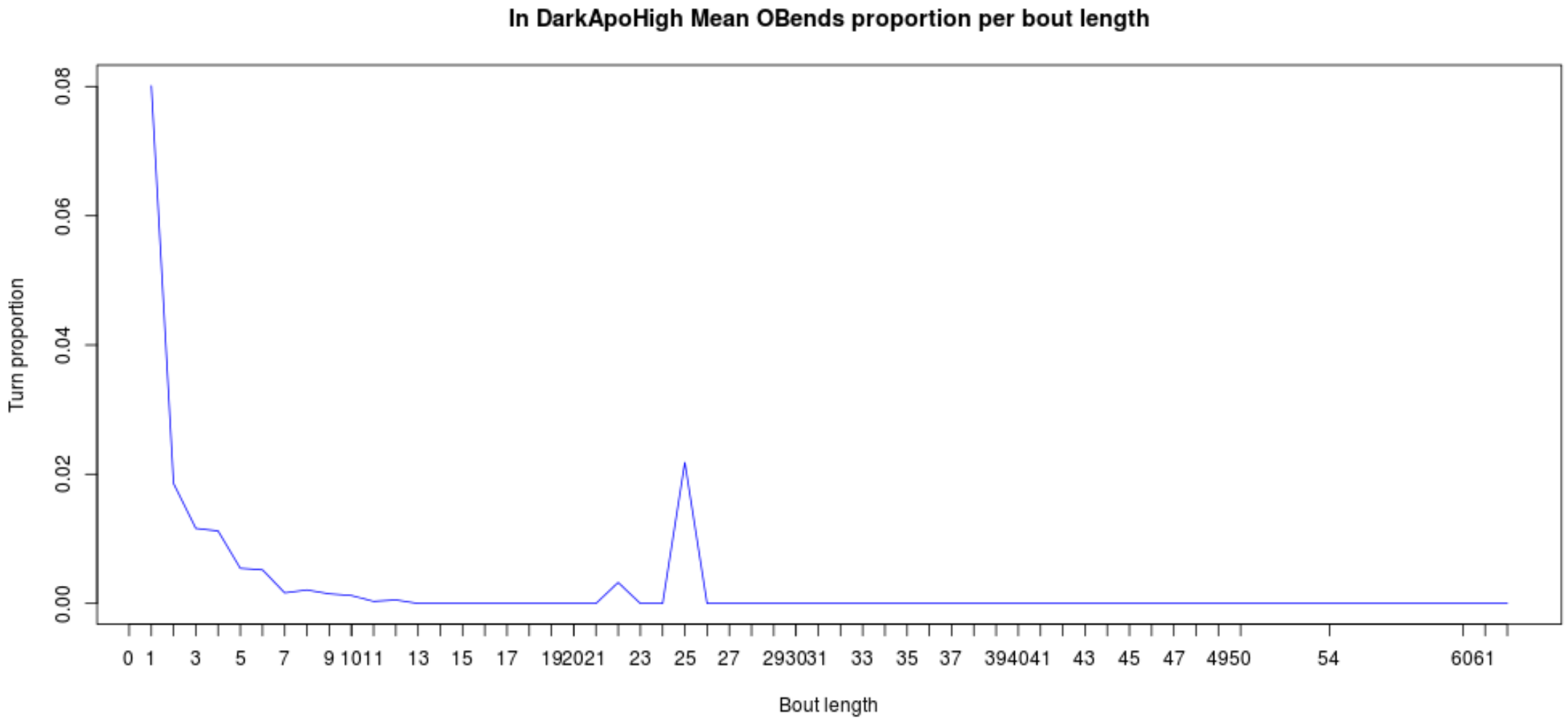
- (Dark)ApoHigh:



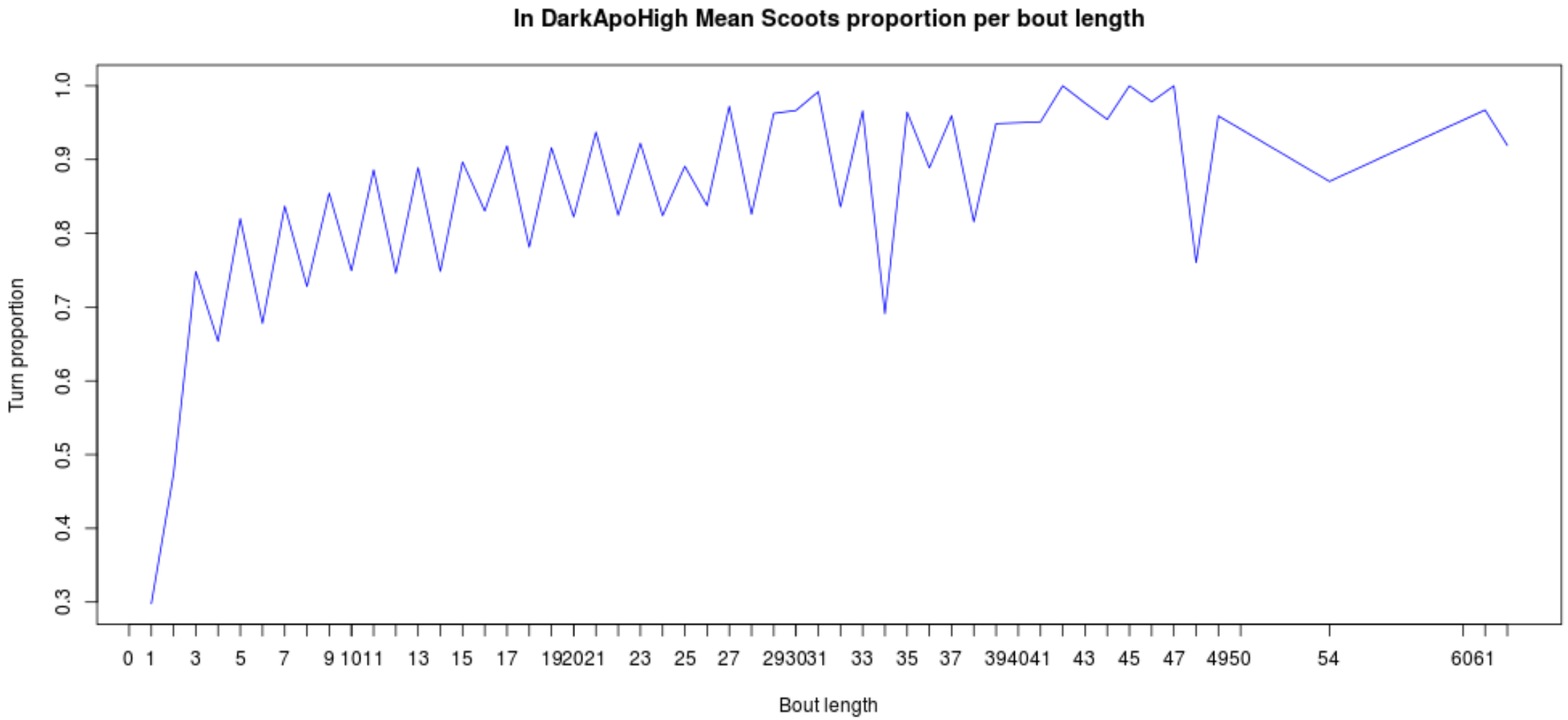
- (Dark)ApoHigh:



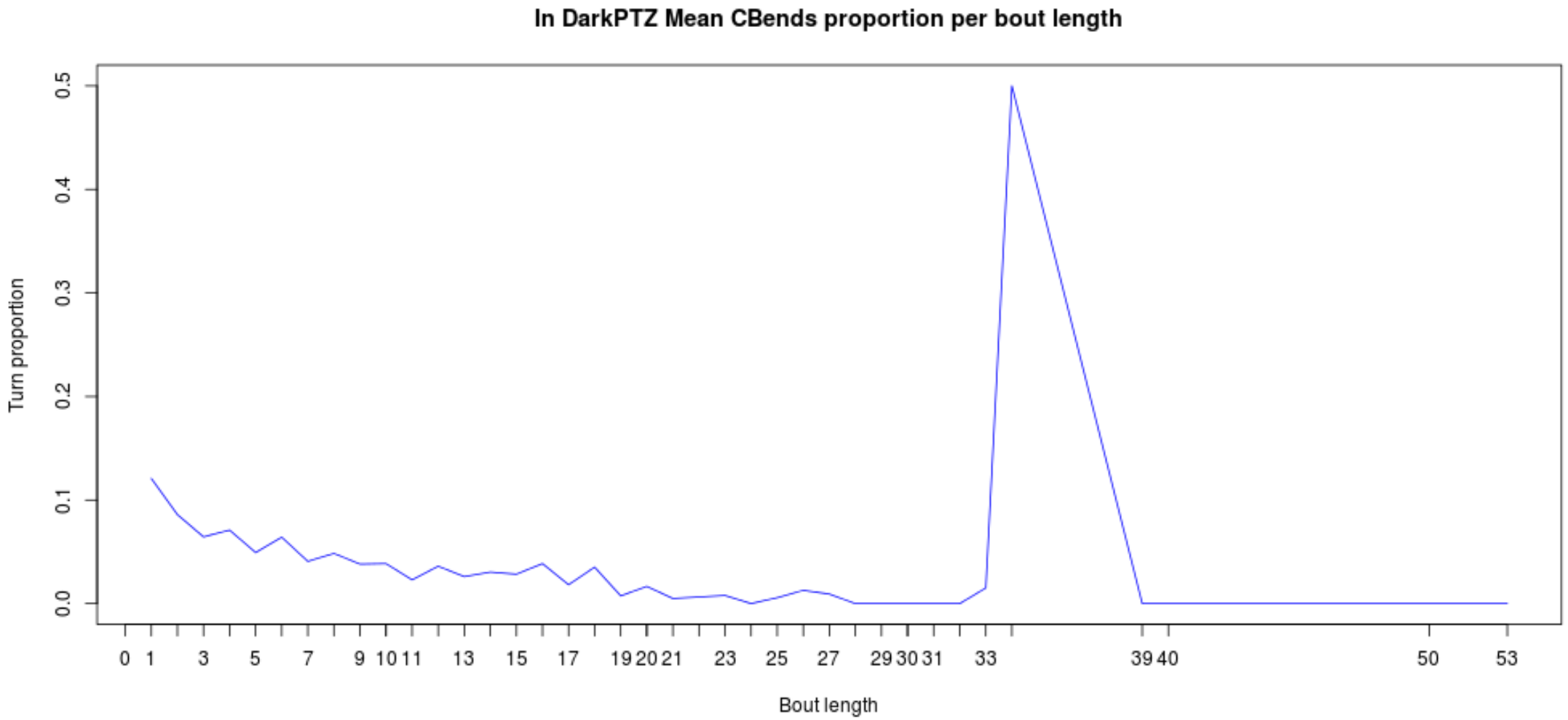
- (Dark)ApoHigh:



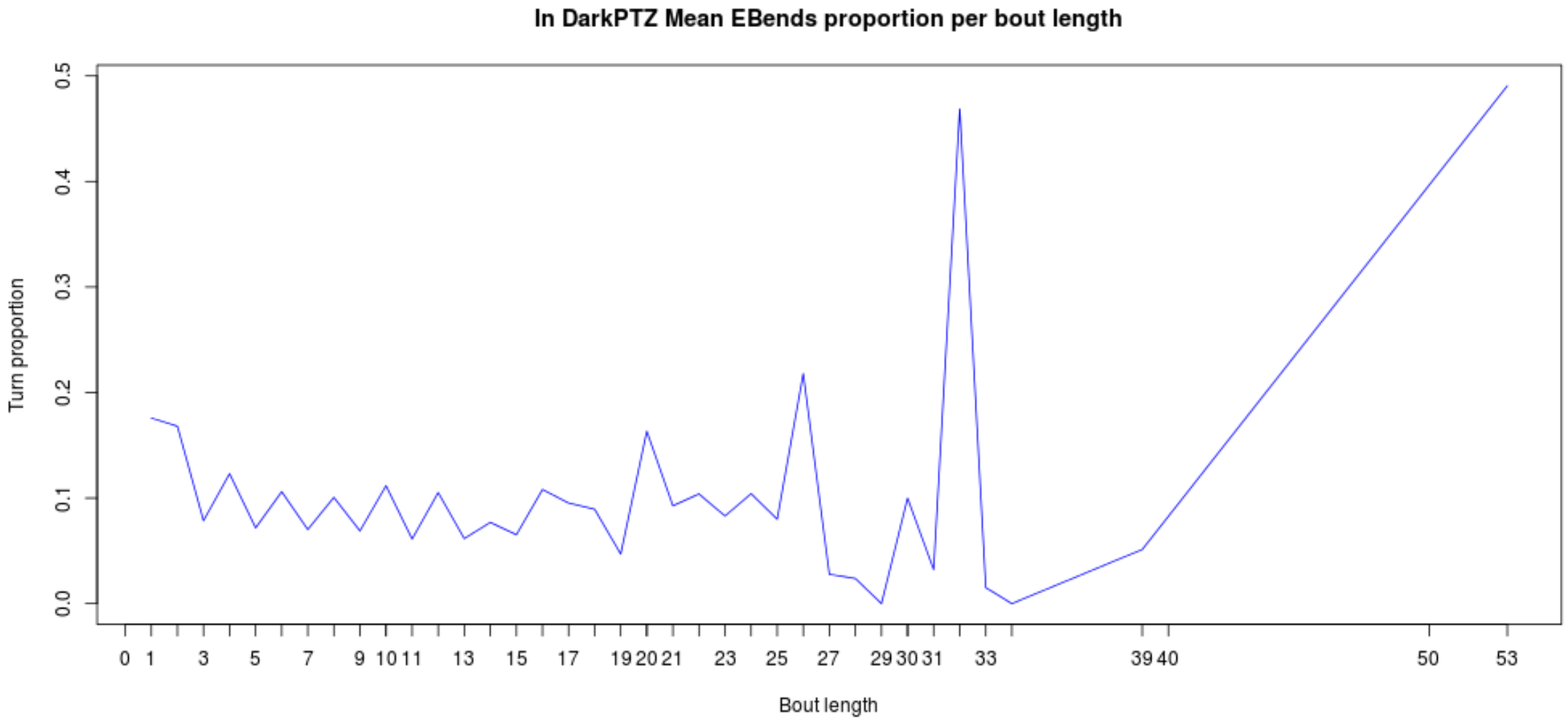
- (Dark)ApoHigh:



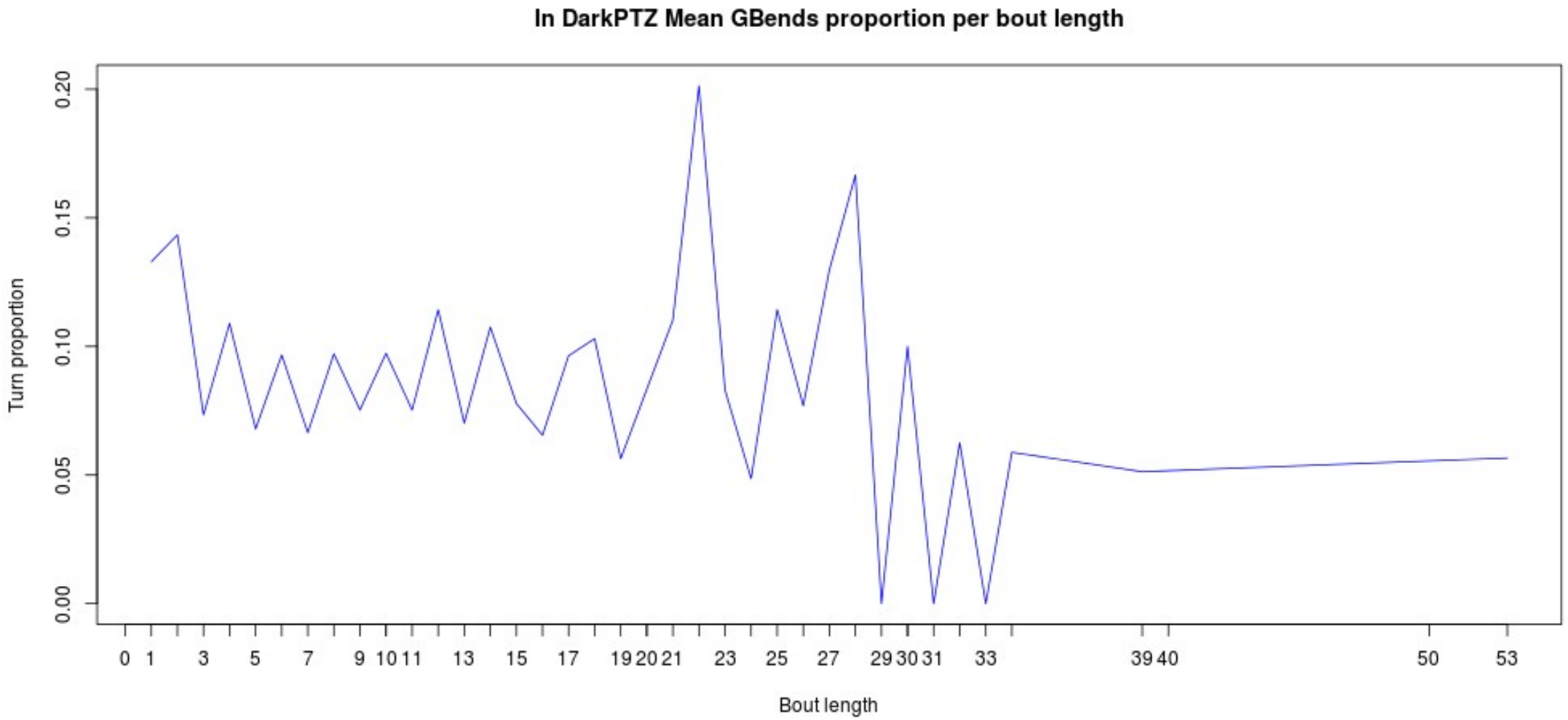
- (Dark)PTZ:


In DarkPTZ Mean CBends proportion per bout length
Turn proportion
0.0
0.1
0.2
0.3
0.4
0.5
0 1 3 5 7 9 10 11 13 15 17 19 20 21 23 25 27 29 30 31 33 39 40 50 53
Bout length

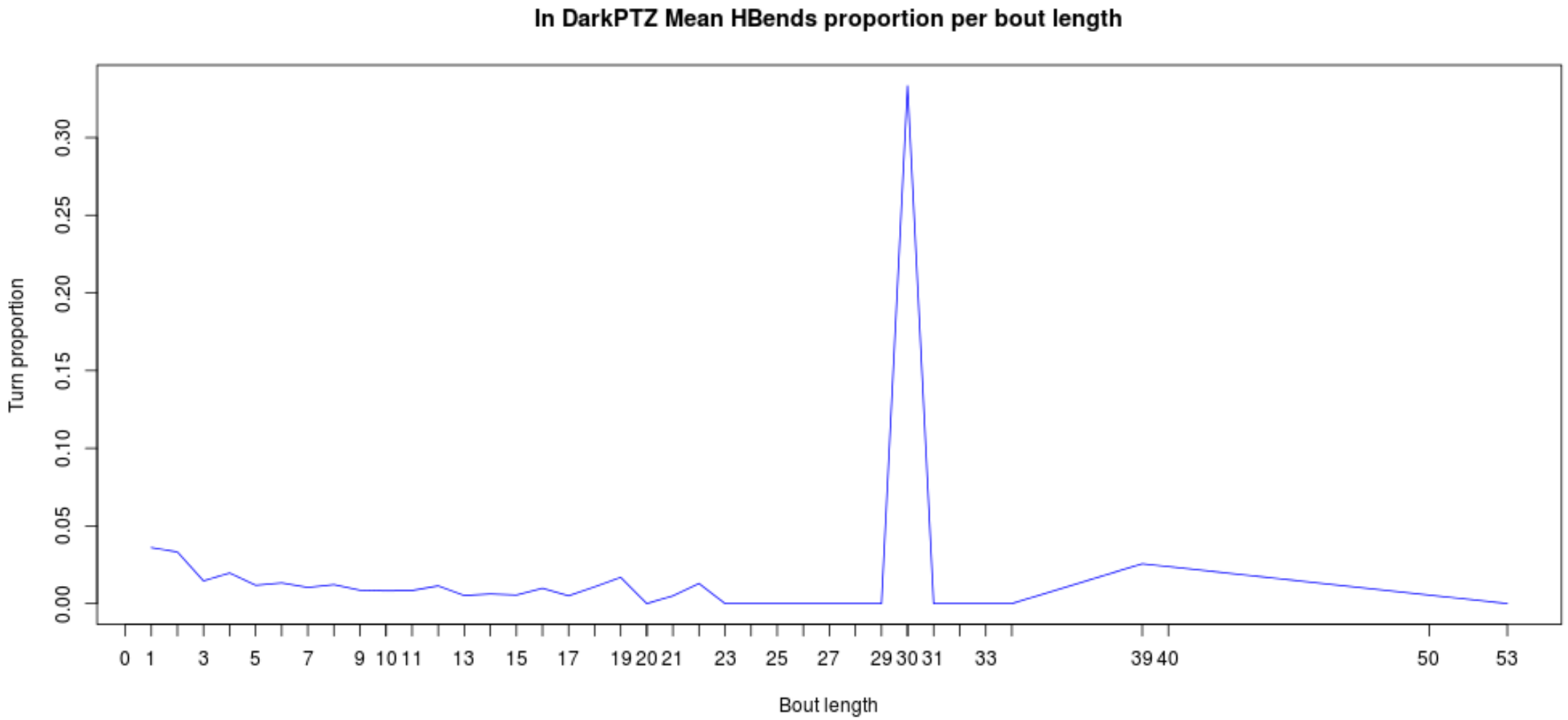
- (Dark)PTZ:


ln DarkPTZ Mean EBends proportion per bout length
Turn proportion
0.0
0.1
0.2
0.3
0.4
0.5
0 1 3 5 7 9 10 11 13 15 17 19 20 21 23 25 27 29 30 31 33 39 40 50 53
Bout length

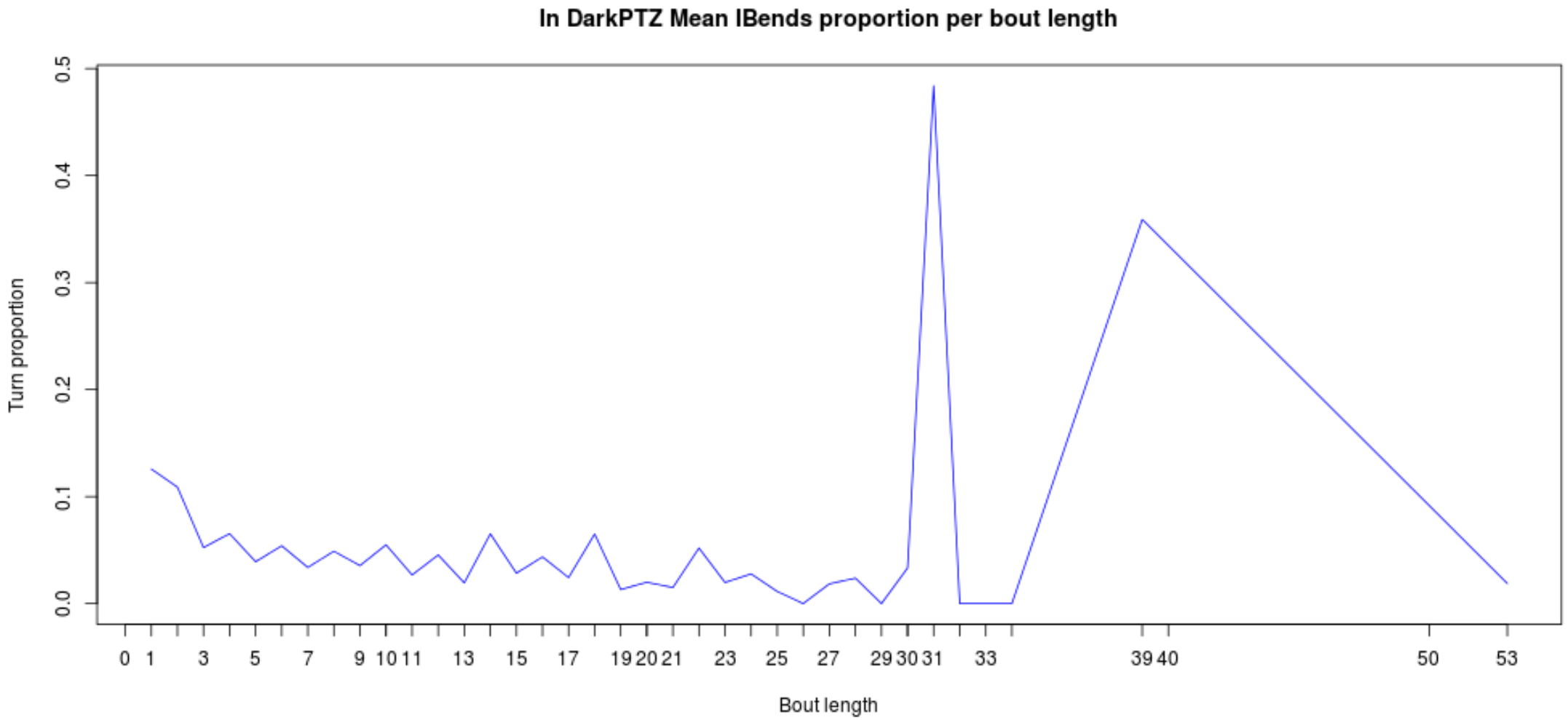
- (Dark)PTZ:


ln DarkPTZ Mean GBends proportion per bout length
Turn proportion
0.00
0.05
0.10
0.15
0.20
0 1 3 5 7 9 10 11 13 15 17 19 20 21 23 25 27 29 30 31 33 39 40 50 53
Bout length

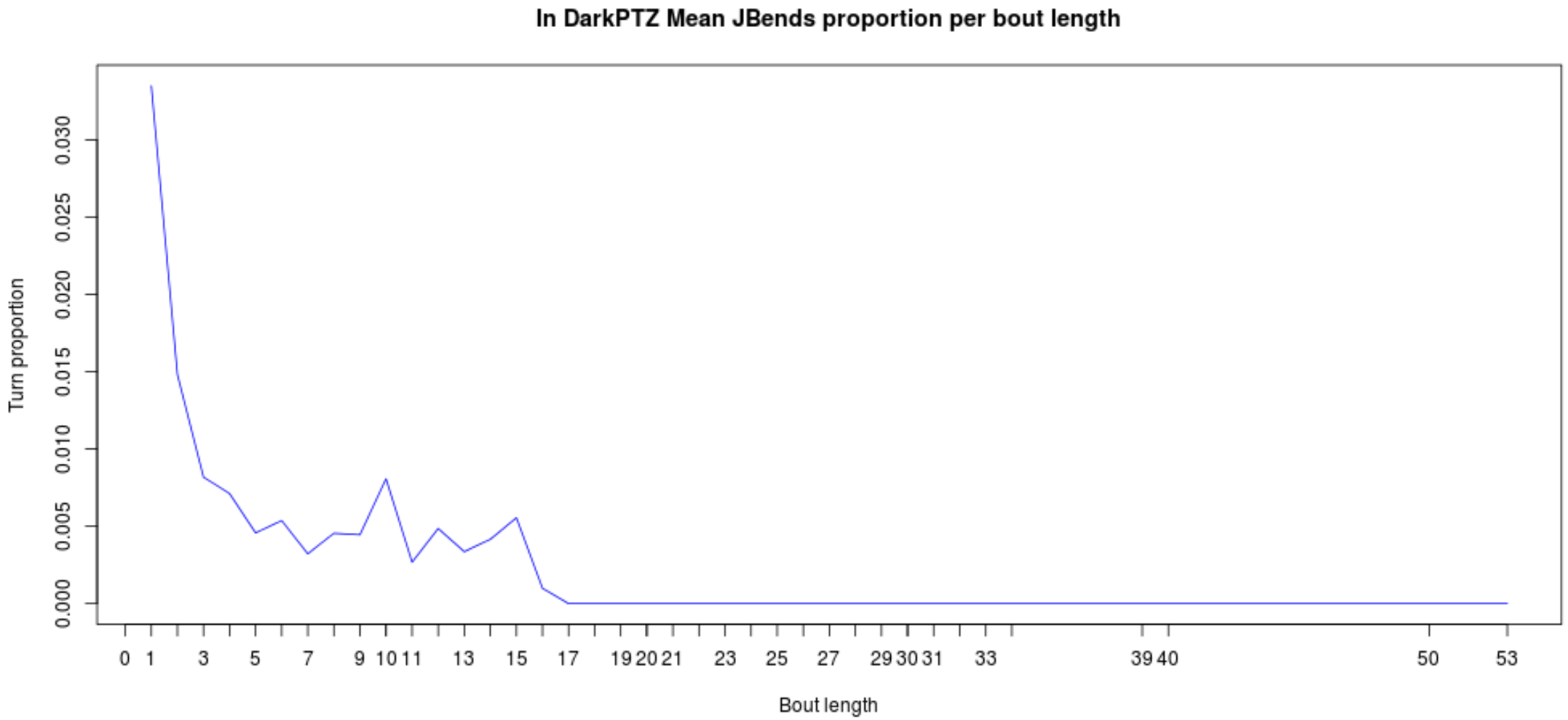
- (Dark)PTZ:


In DarkPTZ Mean HBends proportion per bout length
Turn proportion
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0 1 3 5 7 9 10 11 13 15 17 19 20 21 23 25 27 29 30 31 33 39 40 50 53
Bout length

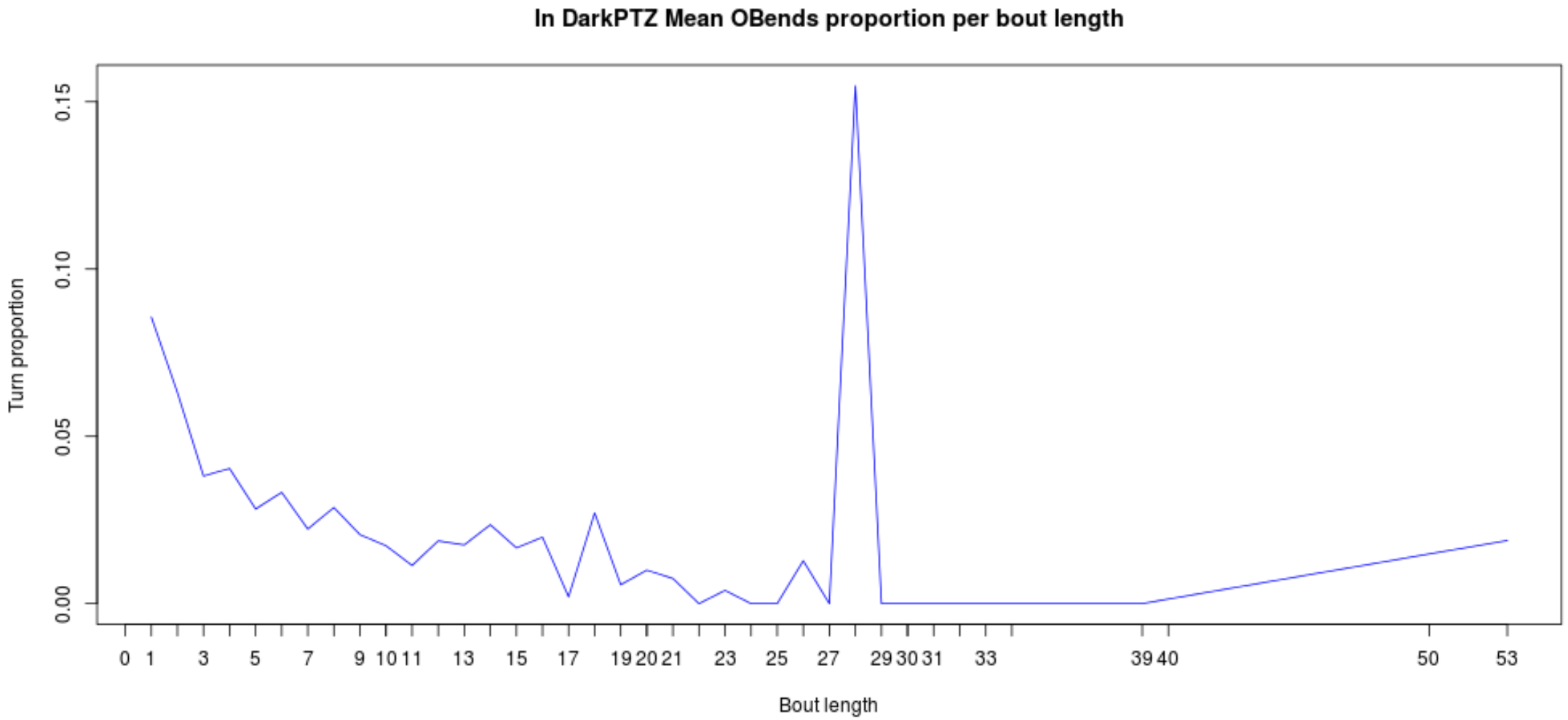
- (Dark)PTZ:


In DarkPTZ Mean lBends proportion per bout length
Turn proportion
0.0
0.1
0.2
0.3
0.4
0.5
0 1 3 5 7 9 10 11 13 15 17 19 20 21 23 25 27 29 30 31 33 39 40 50 53
Bout length

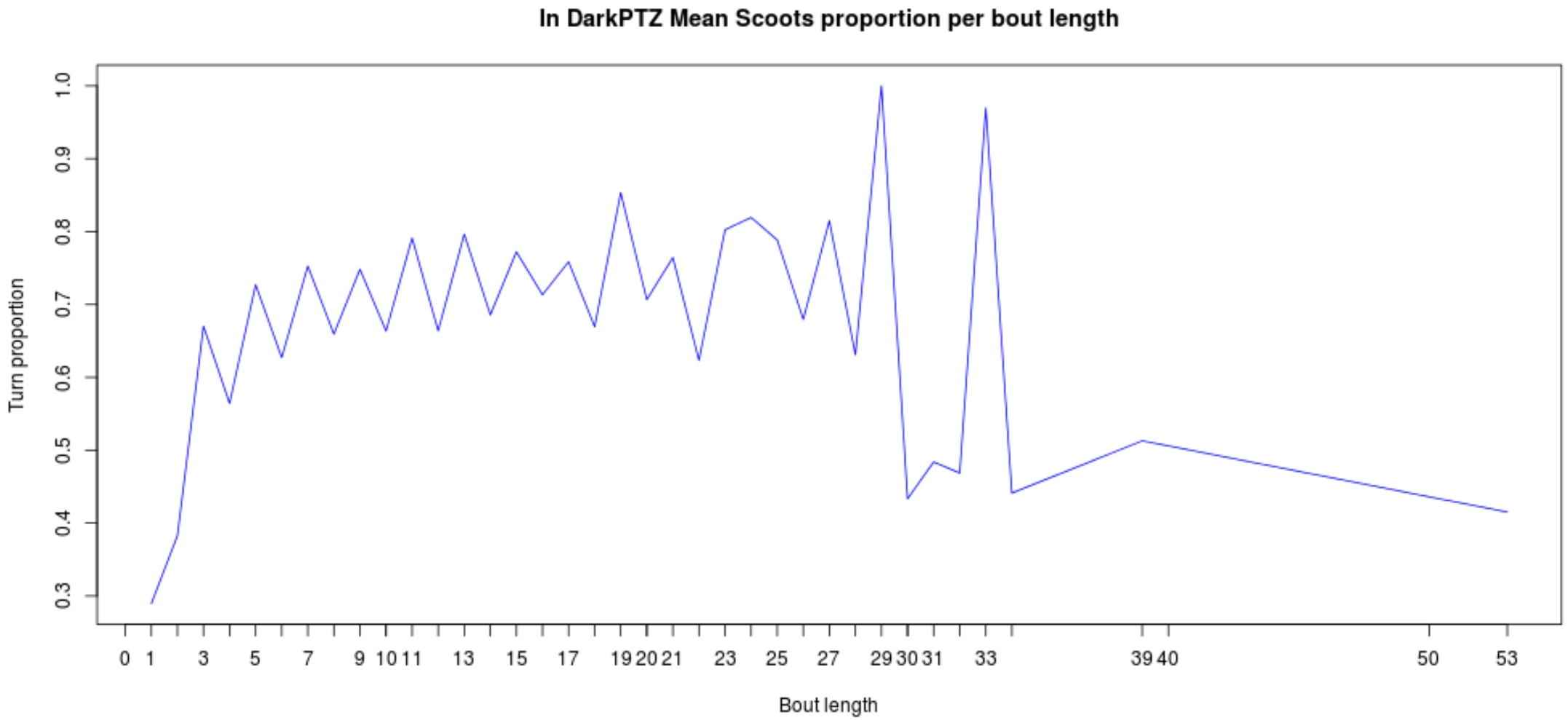
- (Dark)PTZ:


In DarkPTZ Mean JBends proportion per bout length
Turn proportion
0.000
0.005
0.010
0.015
0.020
0.025
0.030
0 1 3 5 7 9 10 11 13 15 17 19 20 21 23 25 27 29 30 31 33 39 40 50 53
Bout length

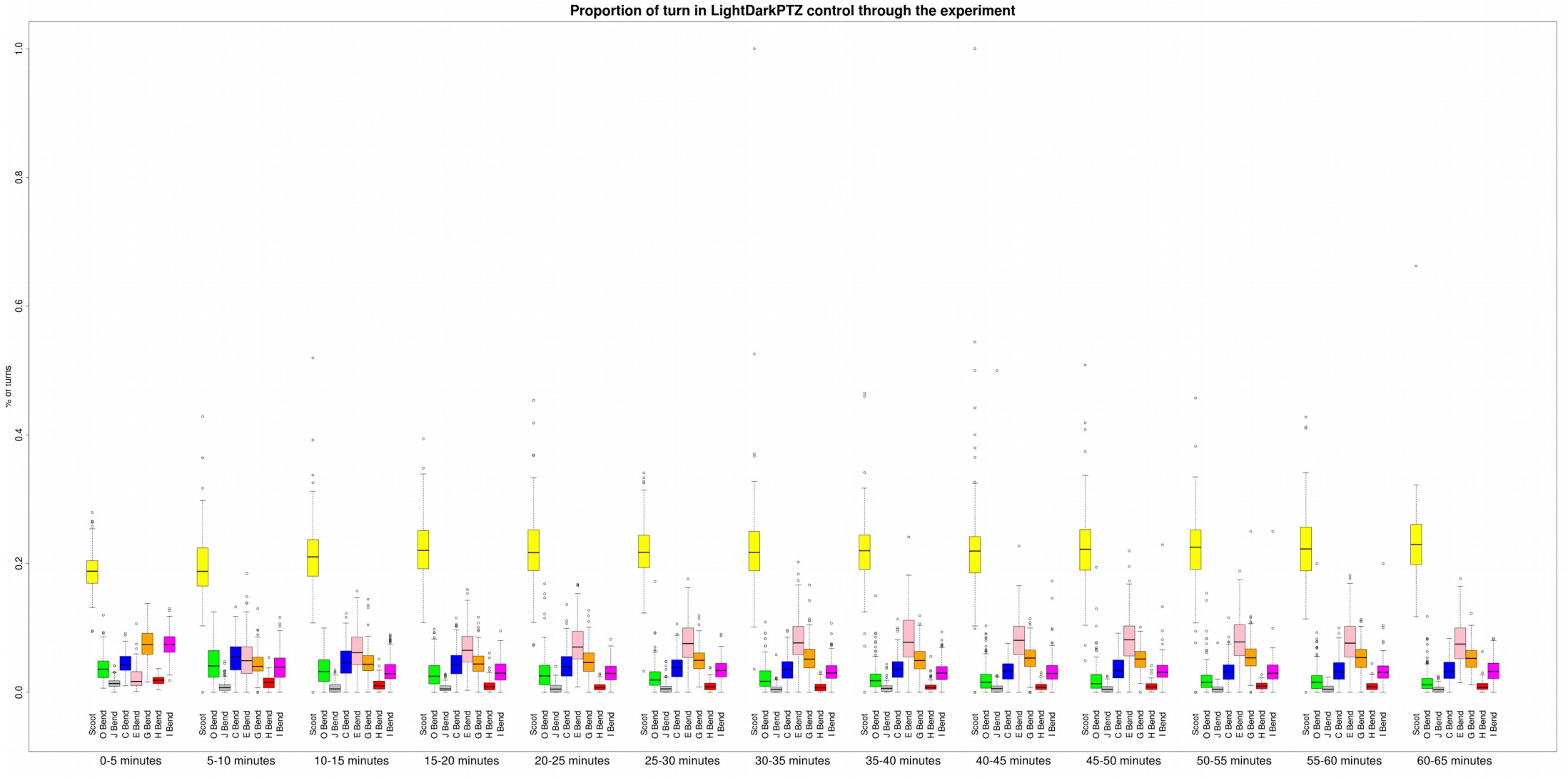
- (Dark)PTZ:


In DarkPTZ Mean OBends proportion per bout length
Turn proportion
0.00
0.05
0.10
0.15
0 1 3 5 7 9 10 11 13 15 17 19 20 21 23 25 27 29 30 31 33 39 40 50 53
Bout length

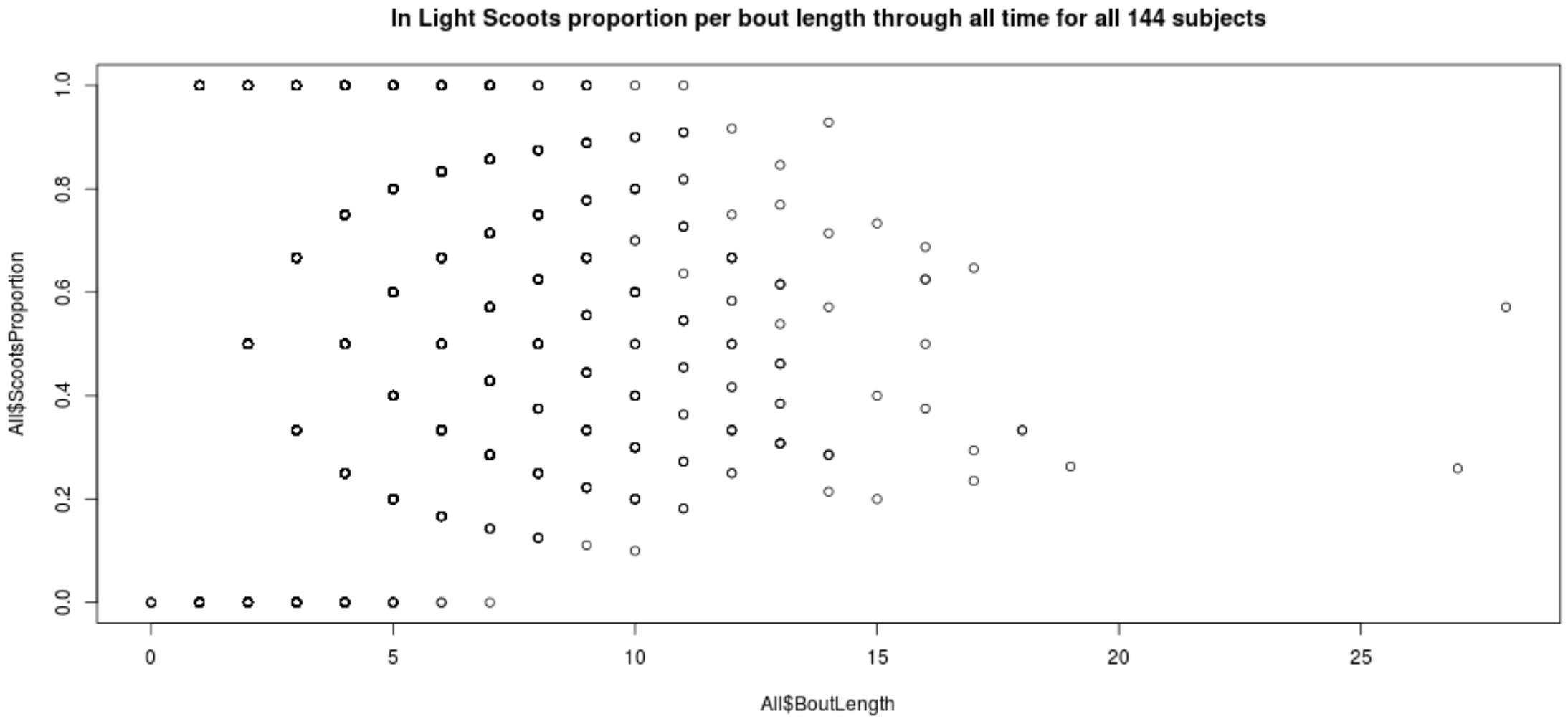
- (Dark)PTZ:


In DarkPTZ Mean Scoots proportion per bout length
Turn proportion
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
0 1 3 5 7 9 10 11 13 15 17 19 20 21 23 25 27 29 30 31 33 39 40 50 53
Bout length

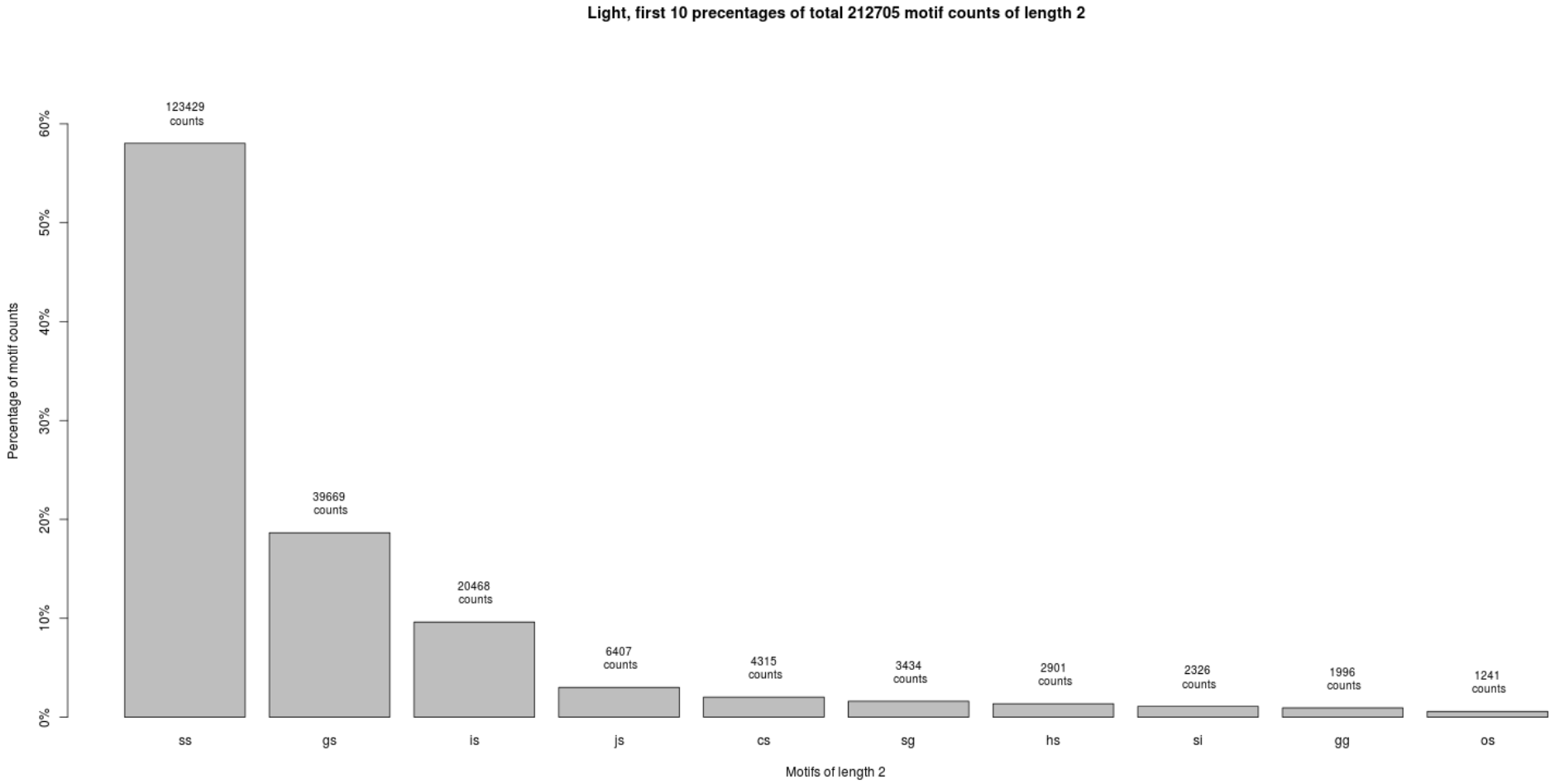
- Hard to say how does the experiment condition itself (adjusted for the bout length and frequency changes) influences the turn occurrences, for example:



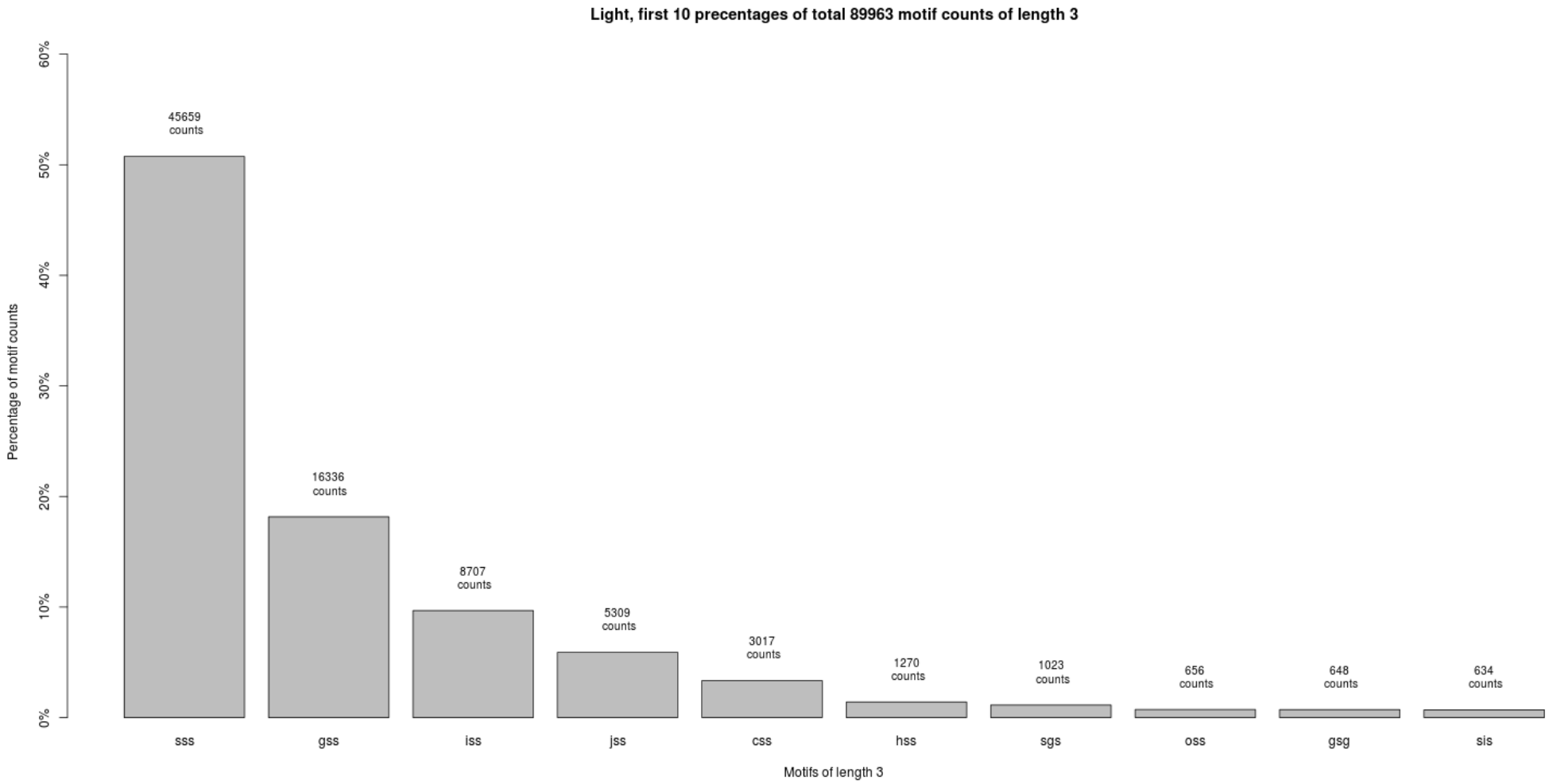
- With averaging over the subjects, action sequences or bouts, a lot of information is lost, but otherwise the data is messy, example:



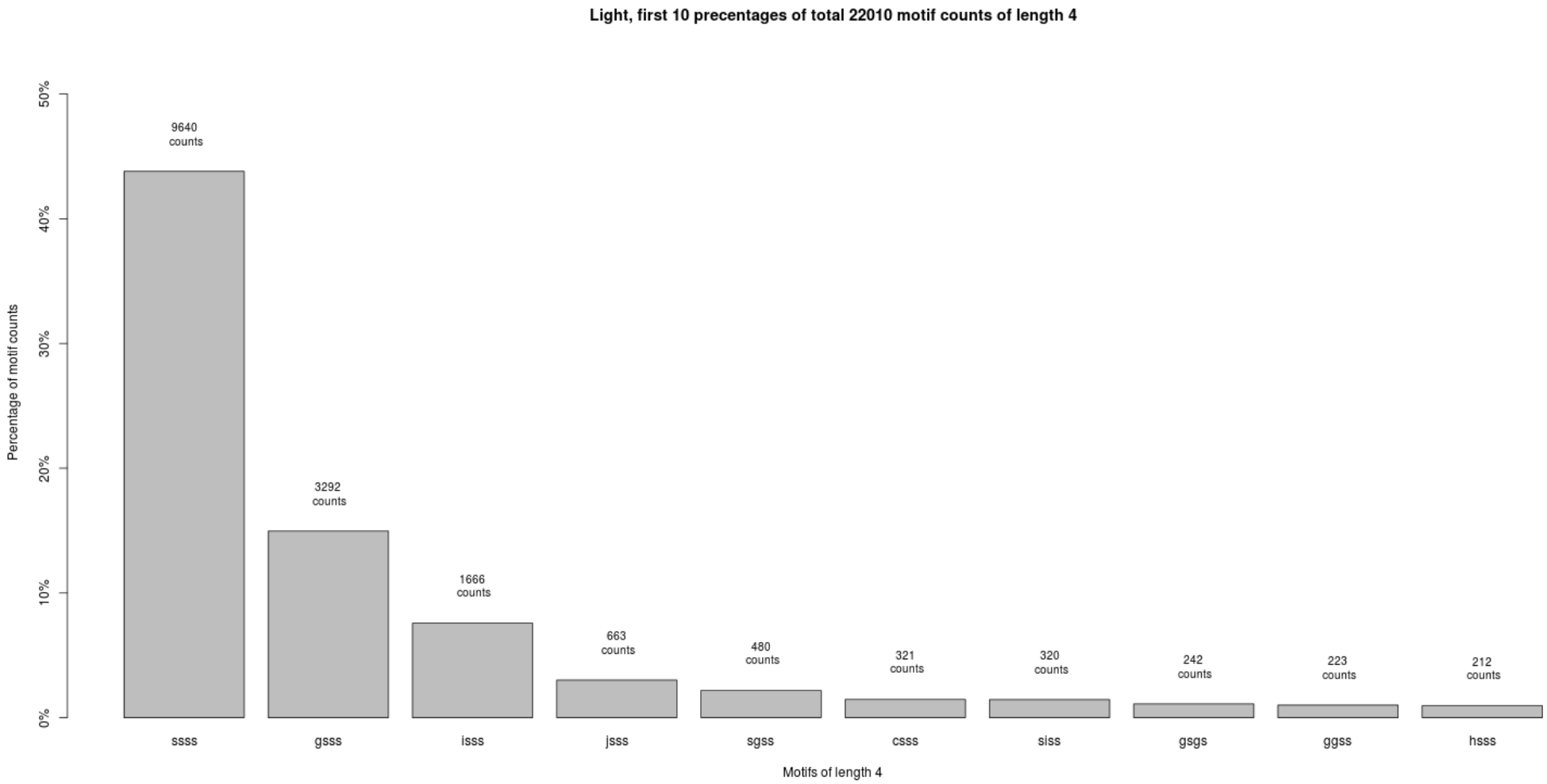
- Simple motif search for motif lengths 2:10, confirmed the large proportion of Scoots:
- Light:



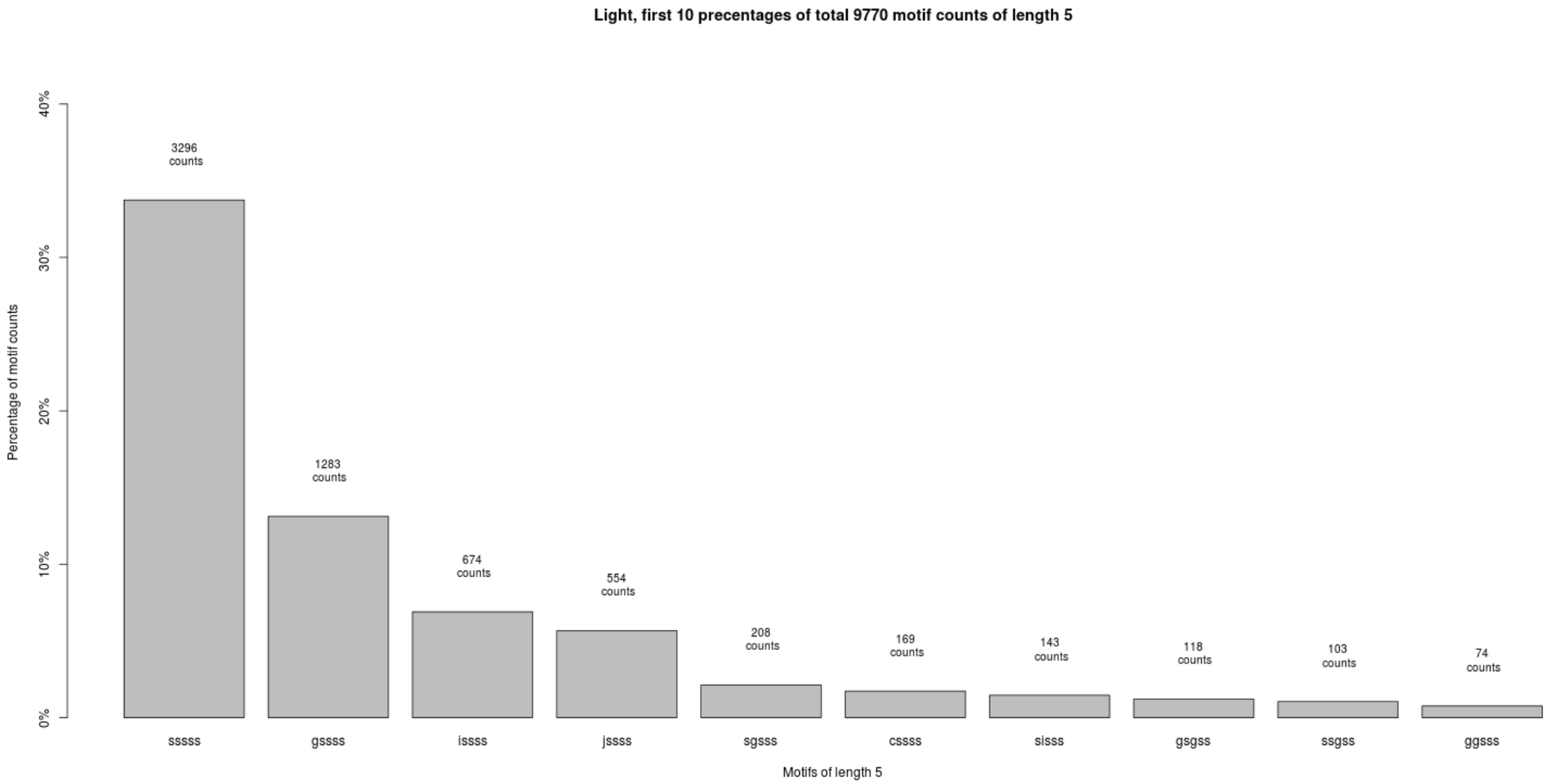
- Light:


Light, first 10 precentages of total 89963 motif counts of length 3
Percentage of motif counts
0%
10%
20%
30%
40%
50%
60%
45659 counts
16336 counts
8707 counts
5309 counts
3017 counts
1270 counts
1023 counts
656 counts
648 counts
634 counts
sss
gss
iss
jss
css
hss
sgs
oss
gsg
sis
Motifs of length 3

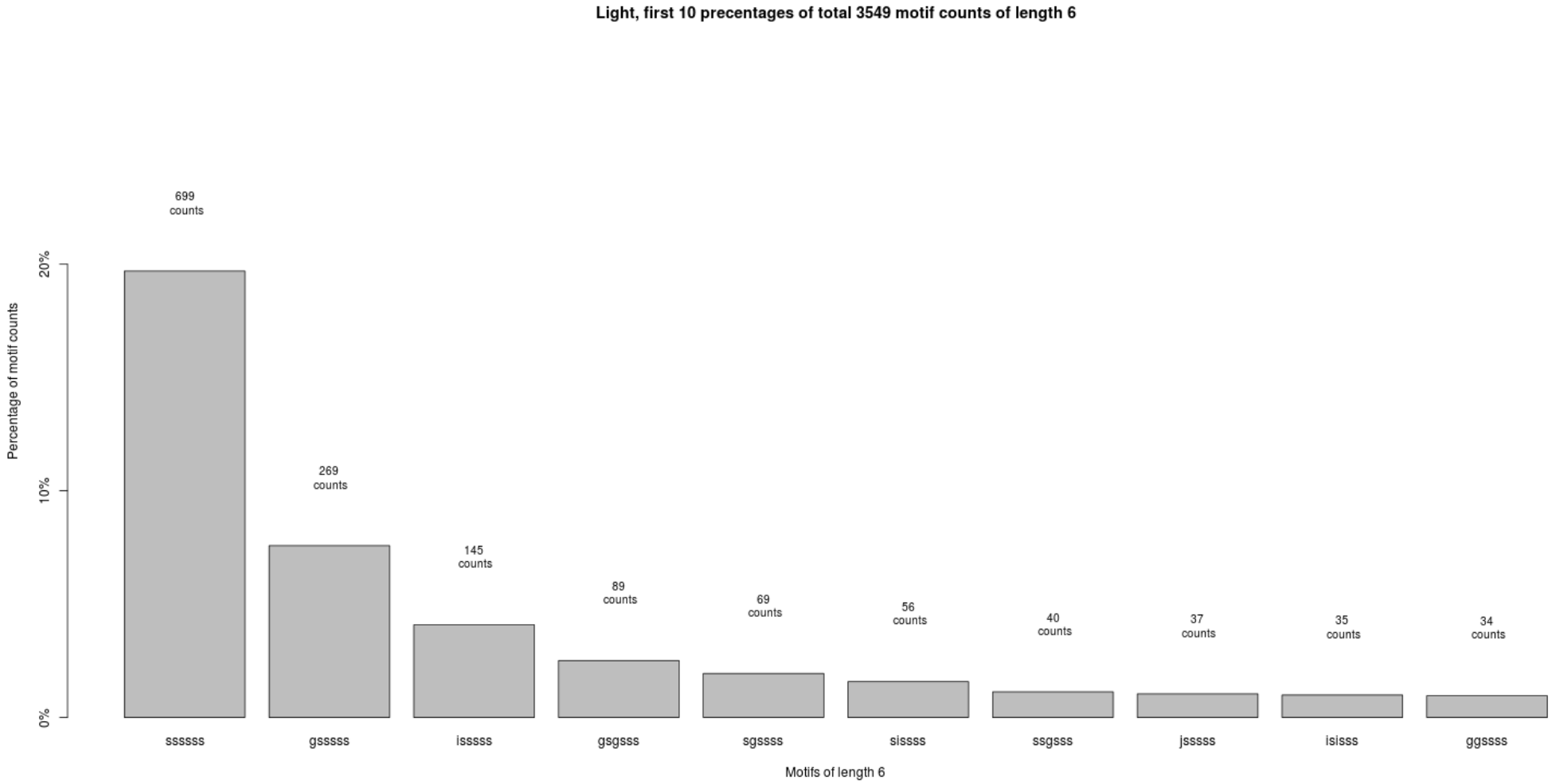
- Light:


Light, first 10 precentages of total 22010 motif counts of length 4
Percentage of motif counts
0%
10%
20%
30%
40%
50%
9640 counts
3292 counts
1666 counts
663 counts
480 counts
321 counts
320 counts
242 counts
223 counts
212 counts
ssss
gsss
isss
jsss
sgss
csss
siss
gsgs
ggss
hsss
Motifs of length 4

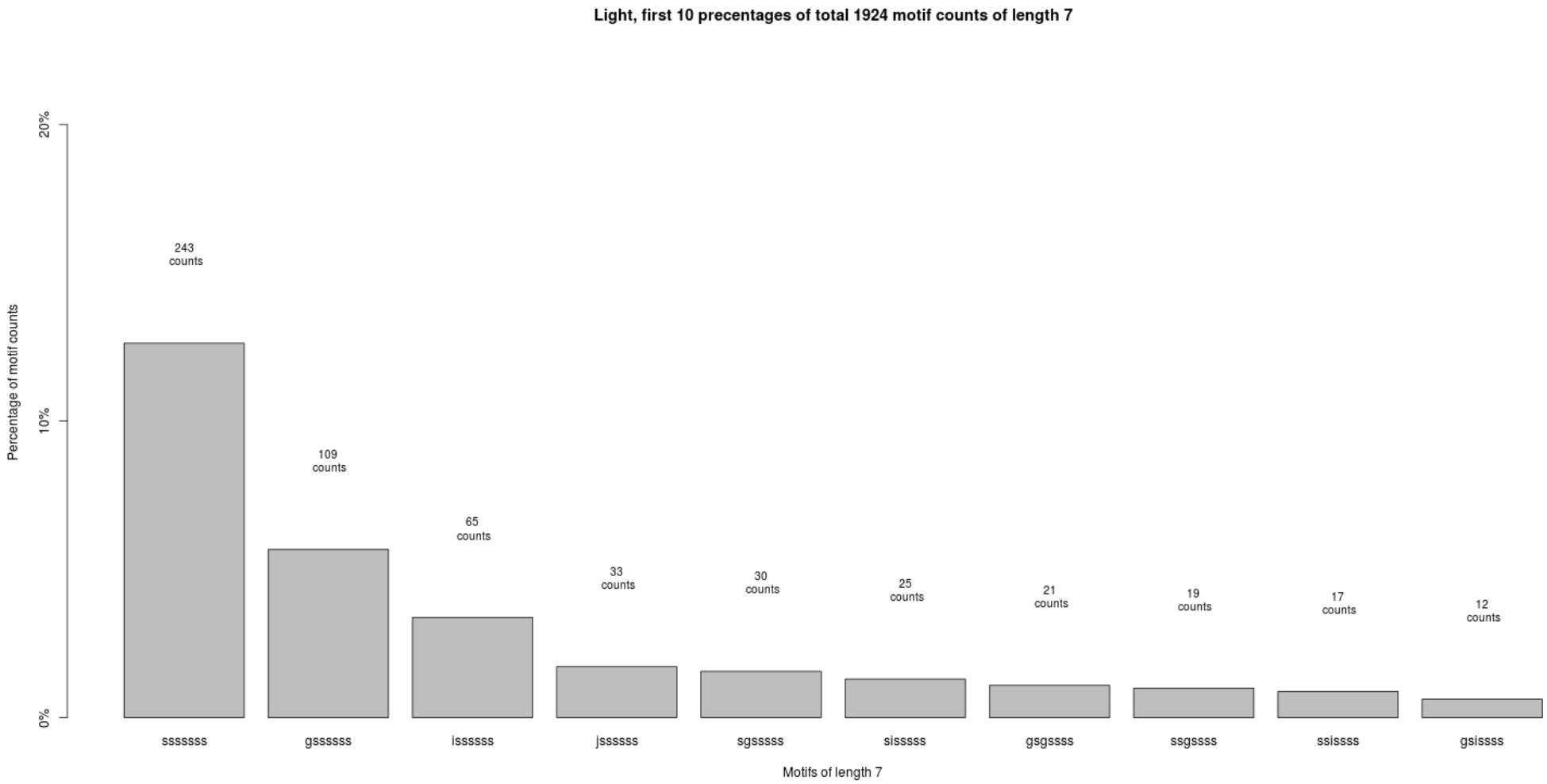
- Light:


Light, first 10 precentages of total 9770 motif counts of length 5
Percentage of motif counts
0%
10%
20%
30%
40%
3296 counts
1283 counts
674 counts
554 counts
208 counts
169 counts
143 counts
118 counts
103 counts
74 counts
sssss
gssss
issss
jssss
sgsss
cssss
sisss
gsgss
ssgss
ggsss
Motifs of length 5

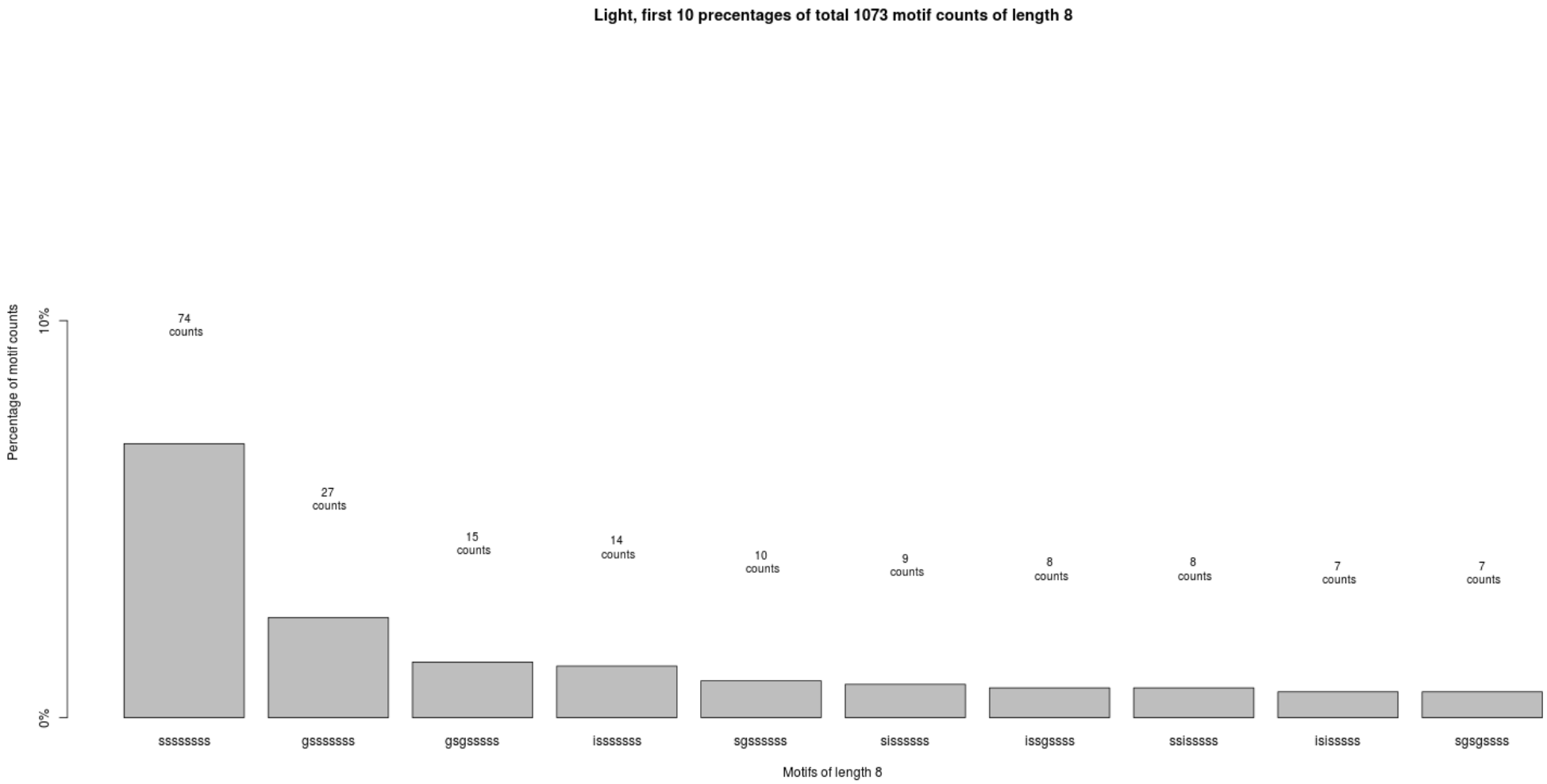
- Light:


Light, first 10 precentages of total 3549 motif counts of length 6
Percentage of motif counts
0%
10%
20%
699 counts
269 counts
145 counts
89 counts
69 counts
56 counts
40 counts
37 counts
35 counts
34 counts
ssssss
gsssss
isssss
gsgsss
sgssss
sissss
ssgsss
jssssss
isisss
ggssss
Motifs of length 6

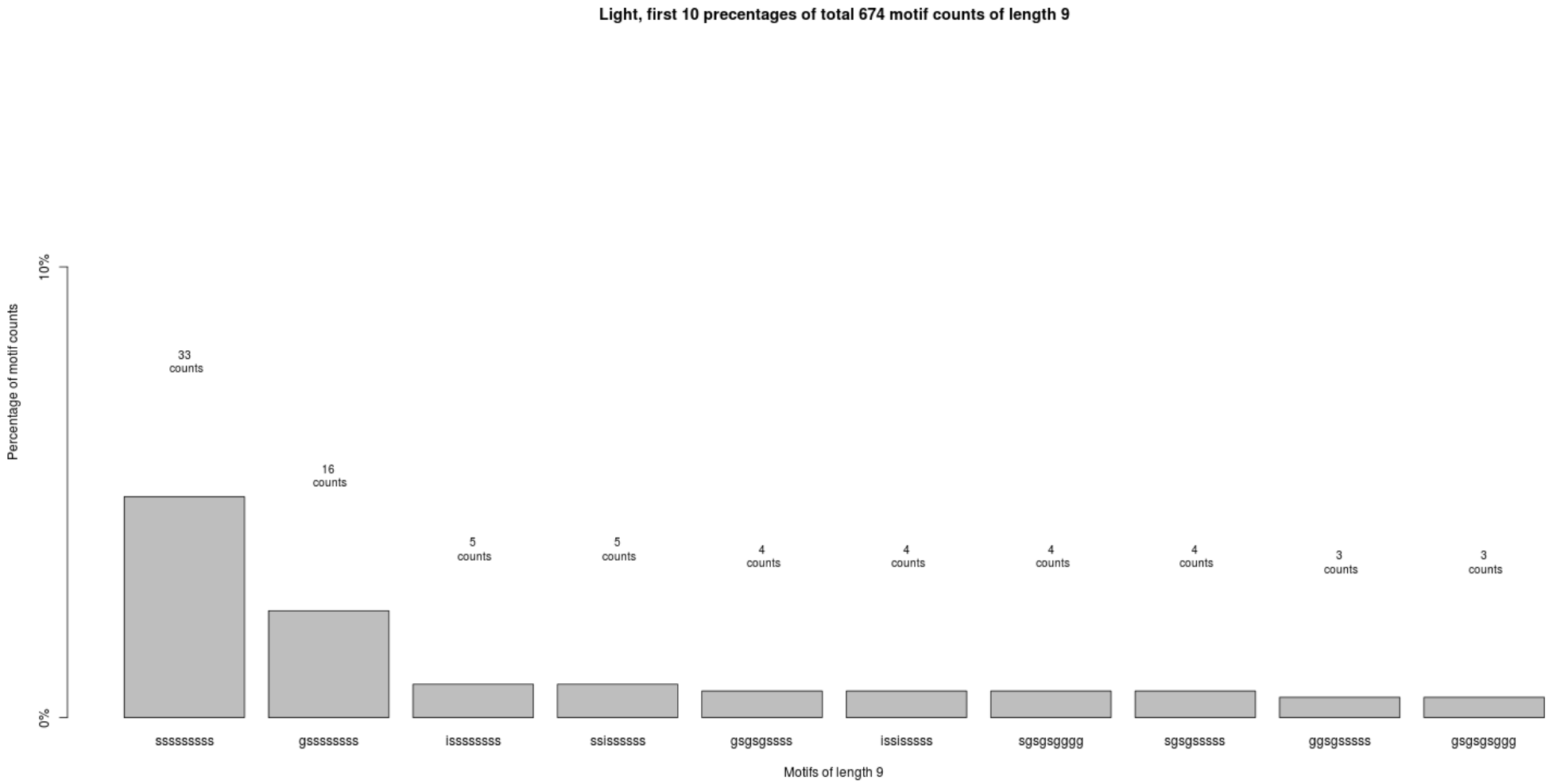
- Light:


Light, first 10 precentages of total 1924 motif counts of length 7
Percentage of motif counts
20%
10%
0%
243 counts
109 counts
65 counts
33 counts
30 counts
25 counts
21 counts
19 counts
17 counts
12 counts
sssssss
gssssss
issssss
jssssss
sgsssss
sissss
gsgssss
ssgssss
ssissss
gsissss
Motifs of length 7

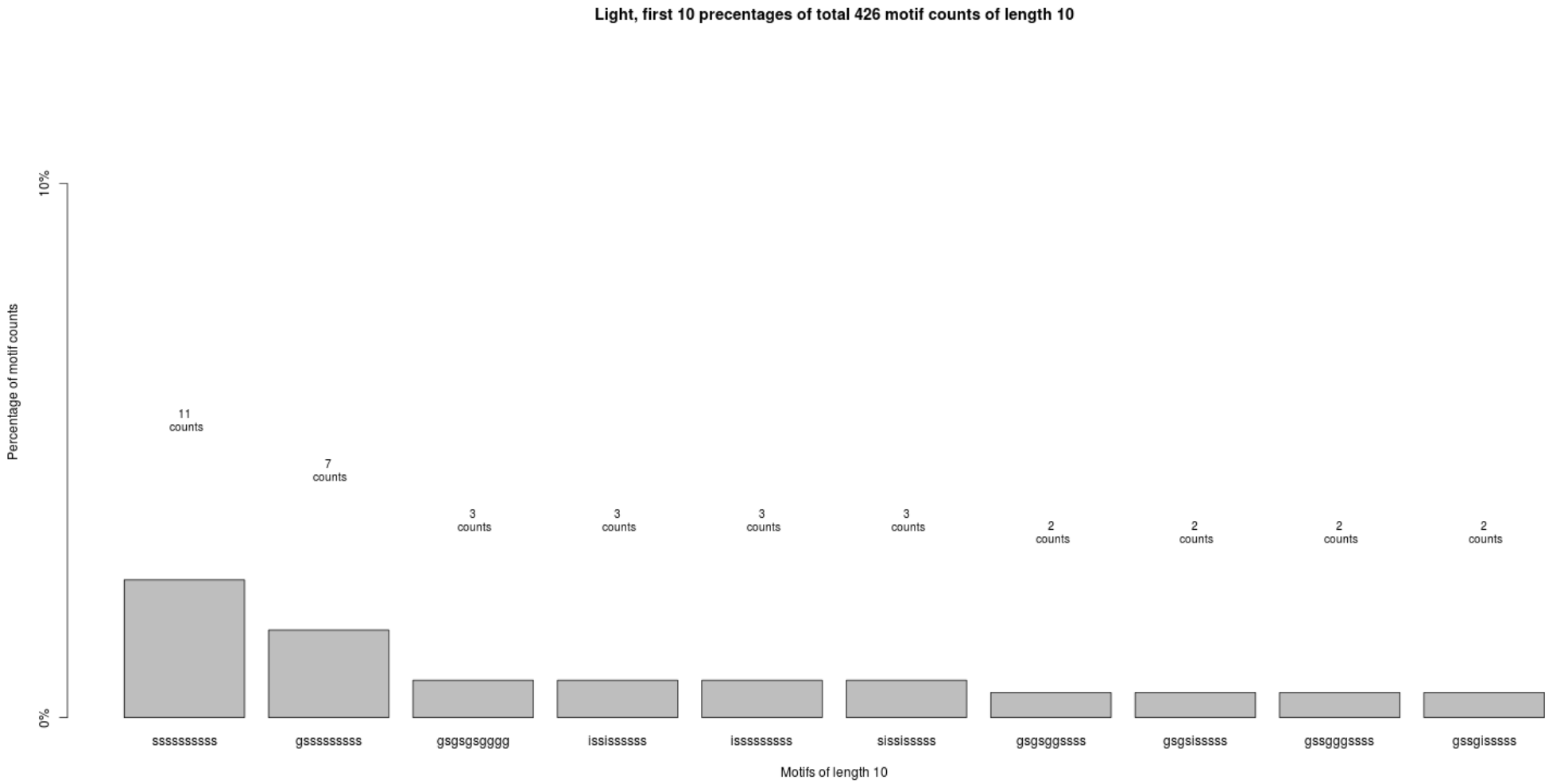
- Light:


Light, first 10 precentages of total 1073 motif counts of length 8
Percentage of motif counts
10%
0%
74 counts
27 counts
15 counts
14 counts
10 counts
9 counts
8 counts
8 counts
7 counts
7 counts
ssssssss
gsssssss
gsgsssss
isssssss
sgssssss
sissssss
issgssss
ssissssss
isissssss
sgsgssss
Motifs of length 8

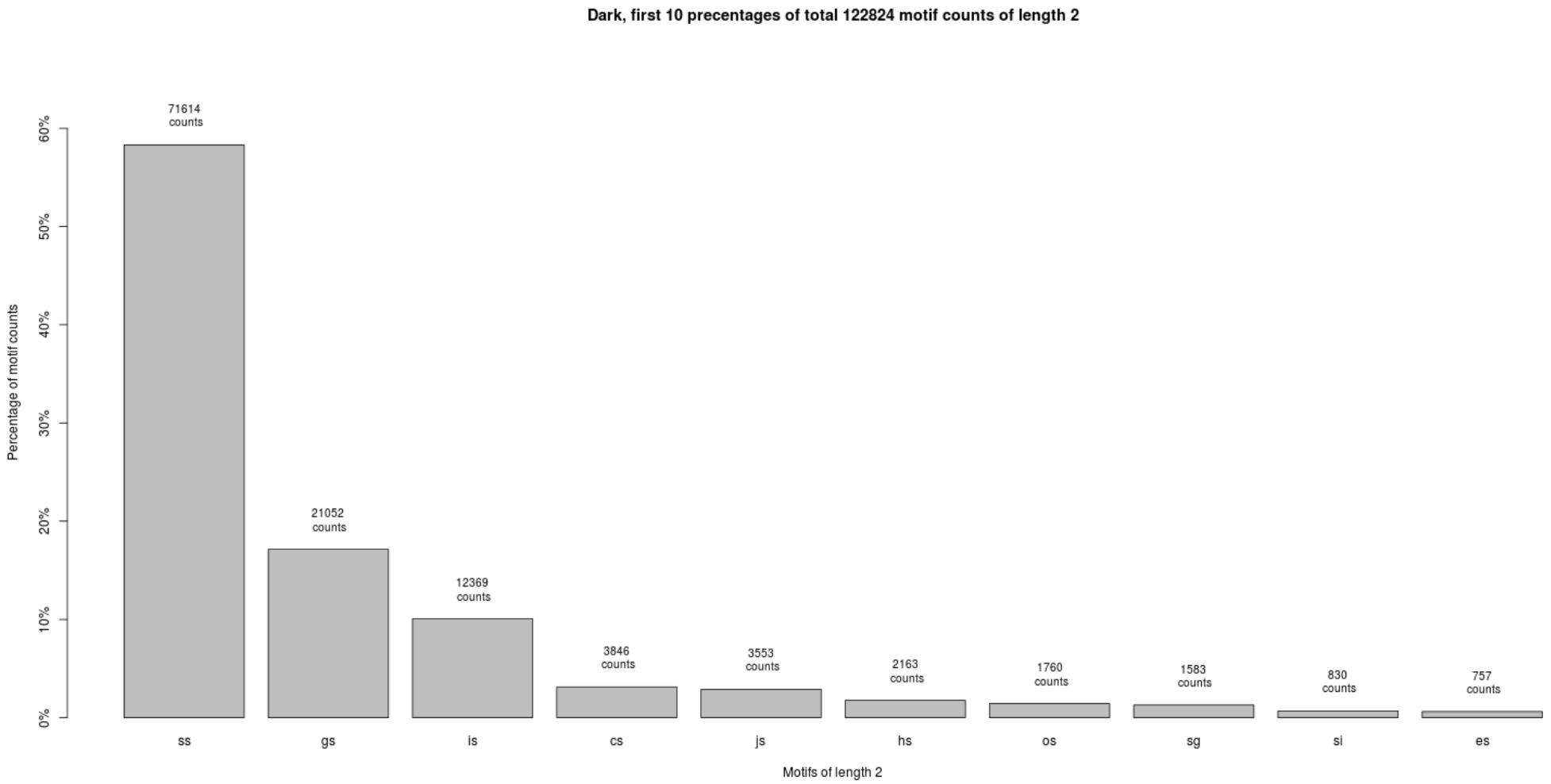
- Light:


Light, first 10 precentages of total 674 motif counts of length 9
Percentage of motif counts
10%
0%
33 counts
16 counts
5 counts
5 counts
4 counts
4 counts
4 counts
4 counts
3 counts
3 counts
sssssssss
gssssssss
issssssss
ssissssss
gsgsgssss
ississssss
sgsgsgggg
sgsgsssss
ggsgsssss
gsgsgsggg
Motifs of length 9

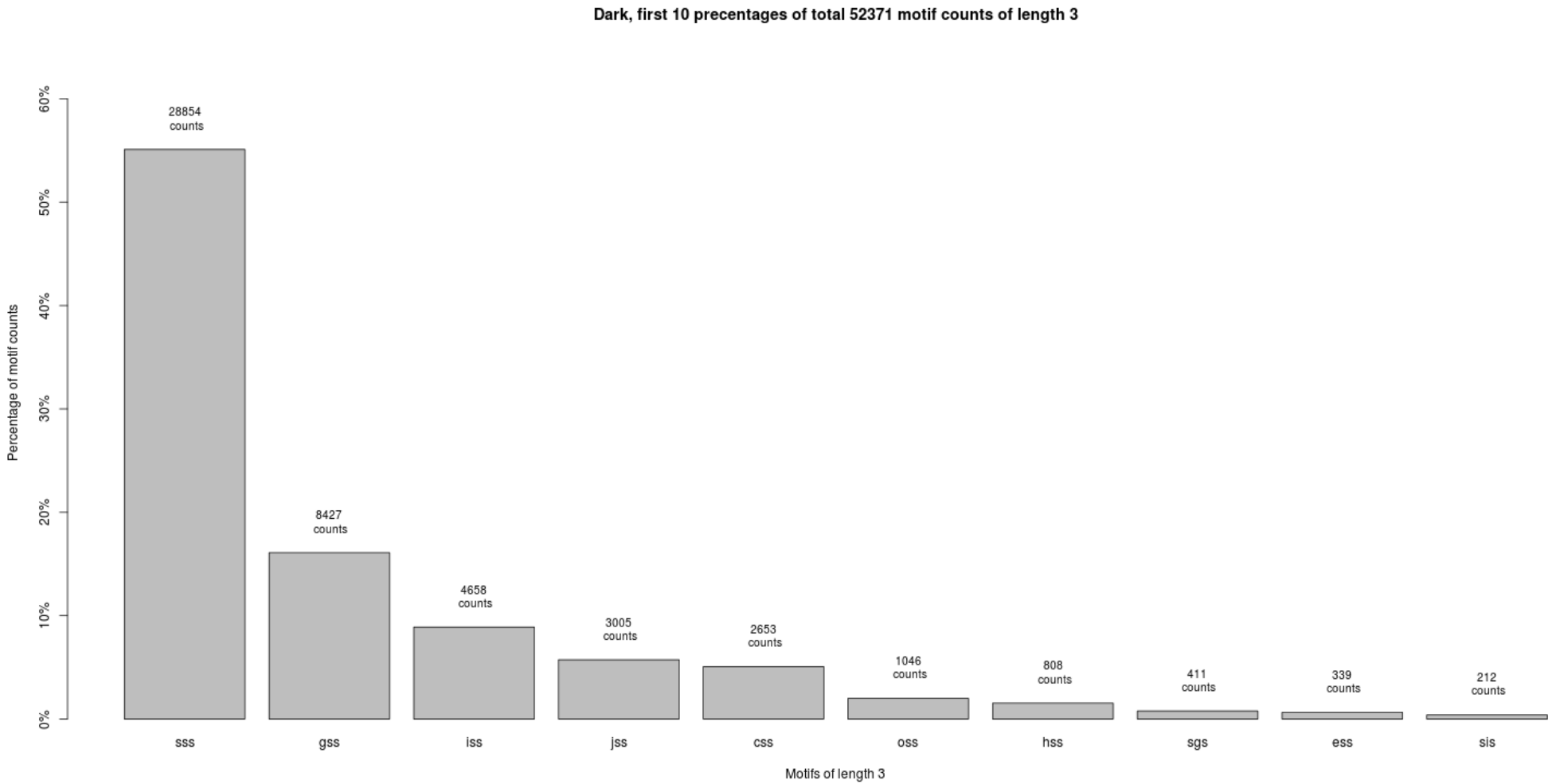
- Light:


Light, first 10 precentages of total 426 motif counts of length 10
Percentage of motif counts
10%
0%
11 counts
7 counts
3 counts
3 counts
3 counts
3 counts
2 counts
2 counts
2 counts
2 counts
sssssssss
gsssssssss
gsgsgsgggg
ississsss
issssssss
sississsss
gsgsggssss
gsgsissss
gssgggssss
gssgissss
Motifs of length 10

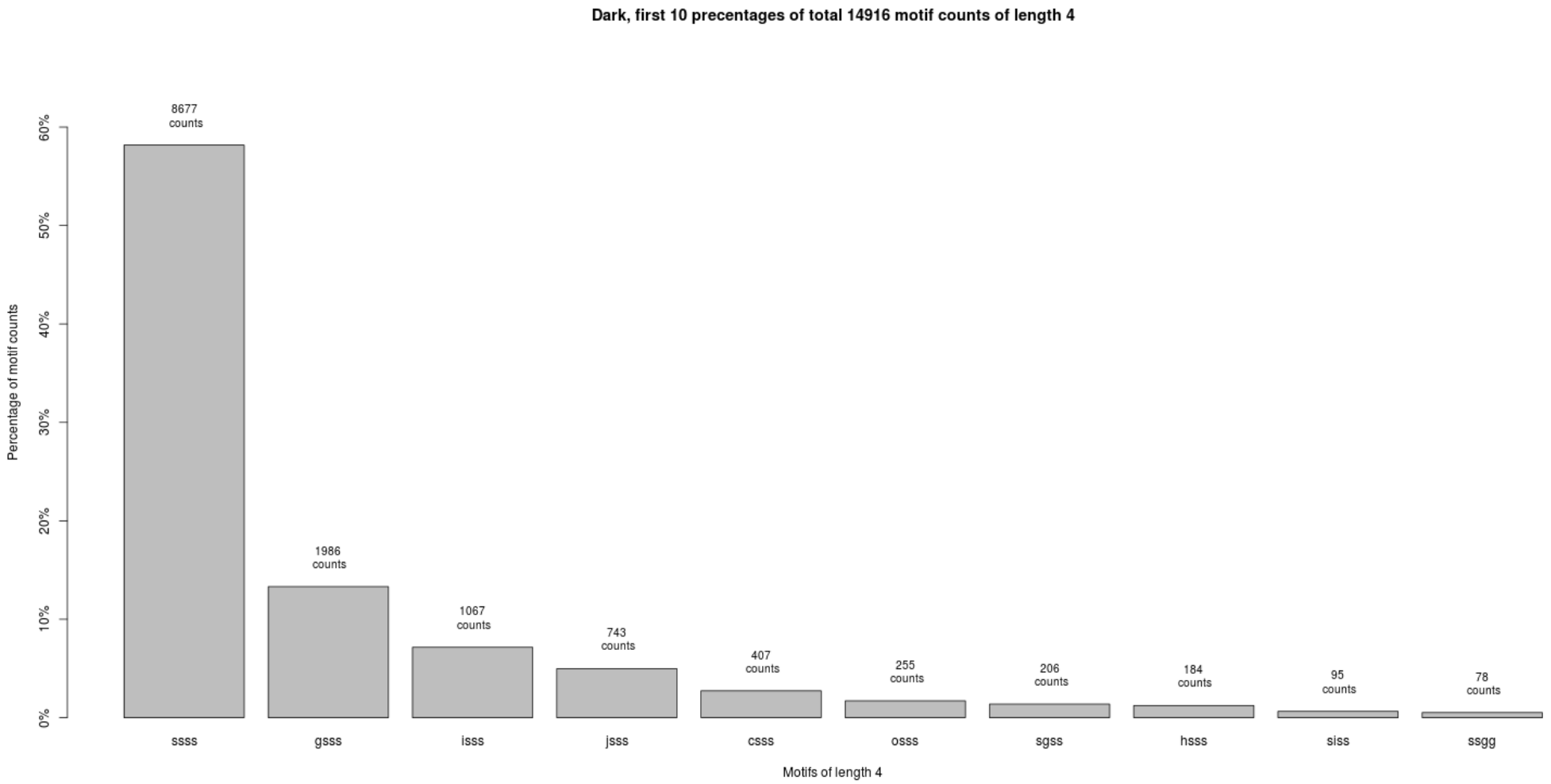
- 
- Dark:


Dark, first 10 precentages of total 122824 motif counts of length 2
Percentage of motif counts
0%
10%
20%
30%
40%
50%
60%
71614 counts
21052 counts
12369 counts
3846 counts
3553 counts
2163 counts
1760 counts
1583 counts
830 counts
757 counts
ss
gs
is
cs
js
hs
os
sg
si
es
Motifs of length 2

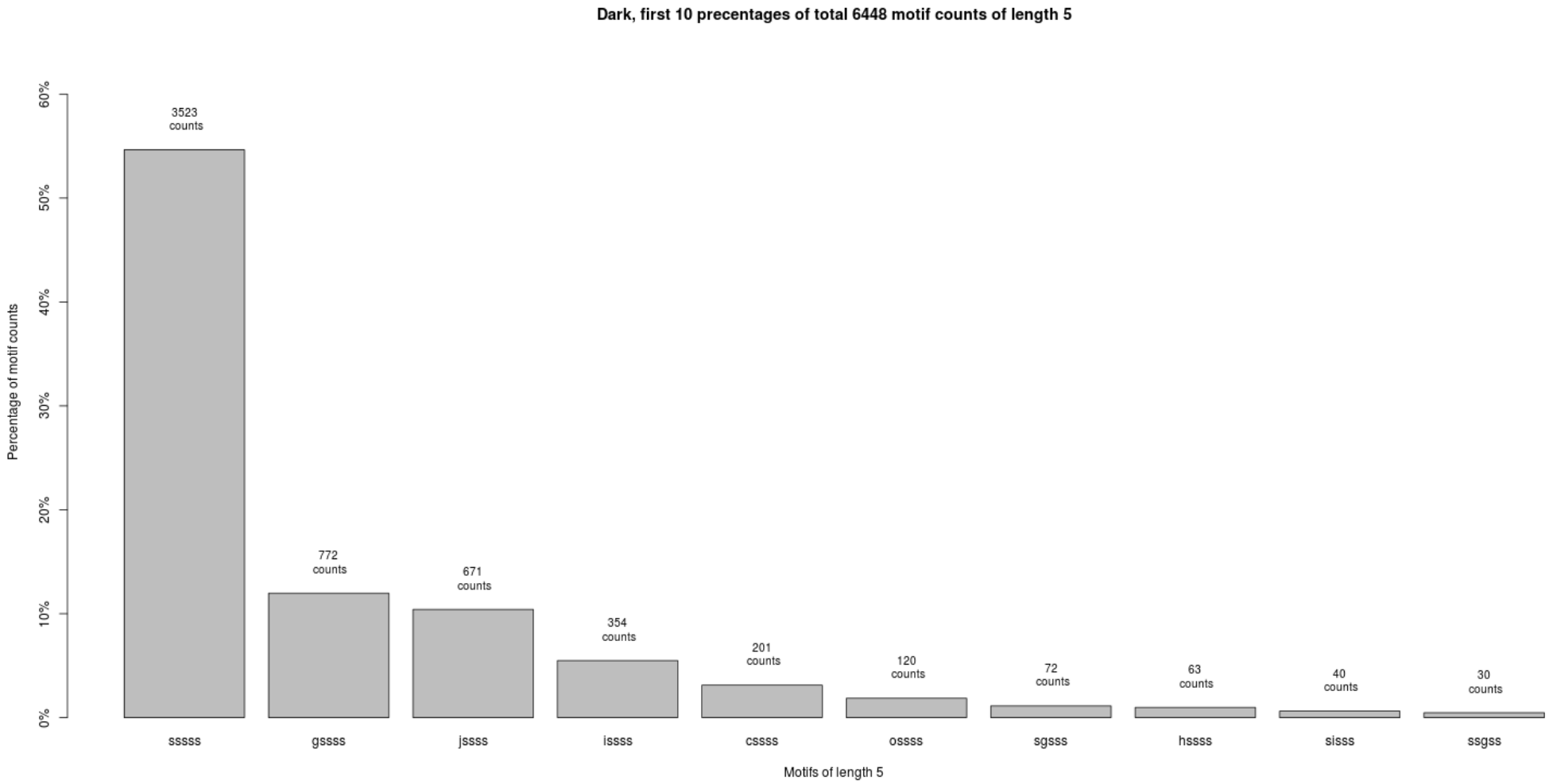
- 
- Dark:


Dark, first 10 precentages of total 52371 motif counts of length 3
Percentage of motif counts
0%
10%
20%
30%
40%
50%
60%
28854 counts
8427 counts
4658 counts
3005 counts
2653 counts
1046 counts
808 counts
411 counts
339 counts
212 counts
sss
gss
iss
jss
css
oss
hss
sgs
ess
sis
Motifs of length 3

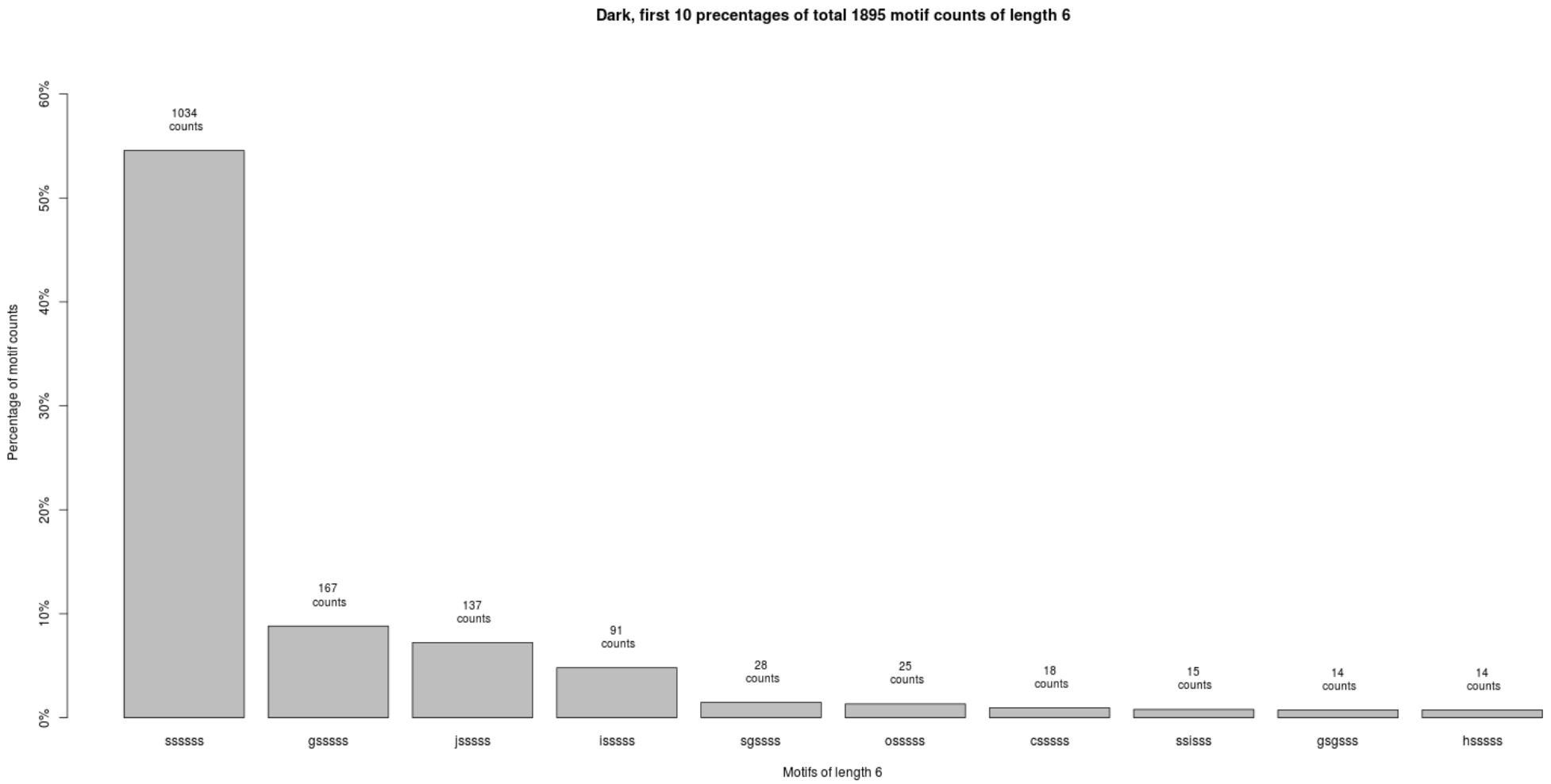
- 
- Dark:


Dark, first 10 precentages of total 14916 motif counts of length 4
Percentage of motif counts
0%
10%
20%
30%
40%
50%
60%
8677 counts
1986 counts
1067 counts
743 counts
407 counts
255 counts
206 counts
184 counts
95 counts
78 counts
ssss
gsss
isss
jsss
csss
osss
sgss
hsss
siss
ssgg
Motifs of length 4

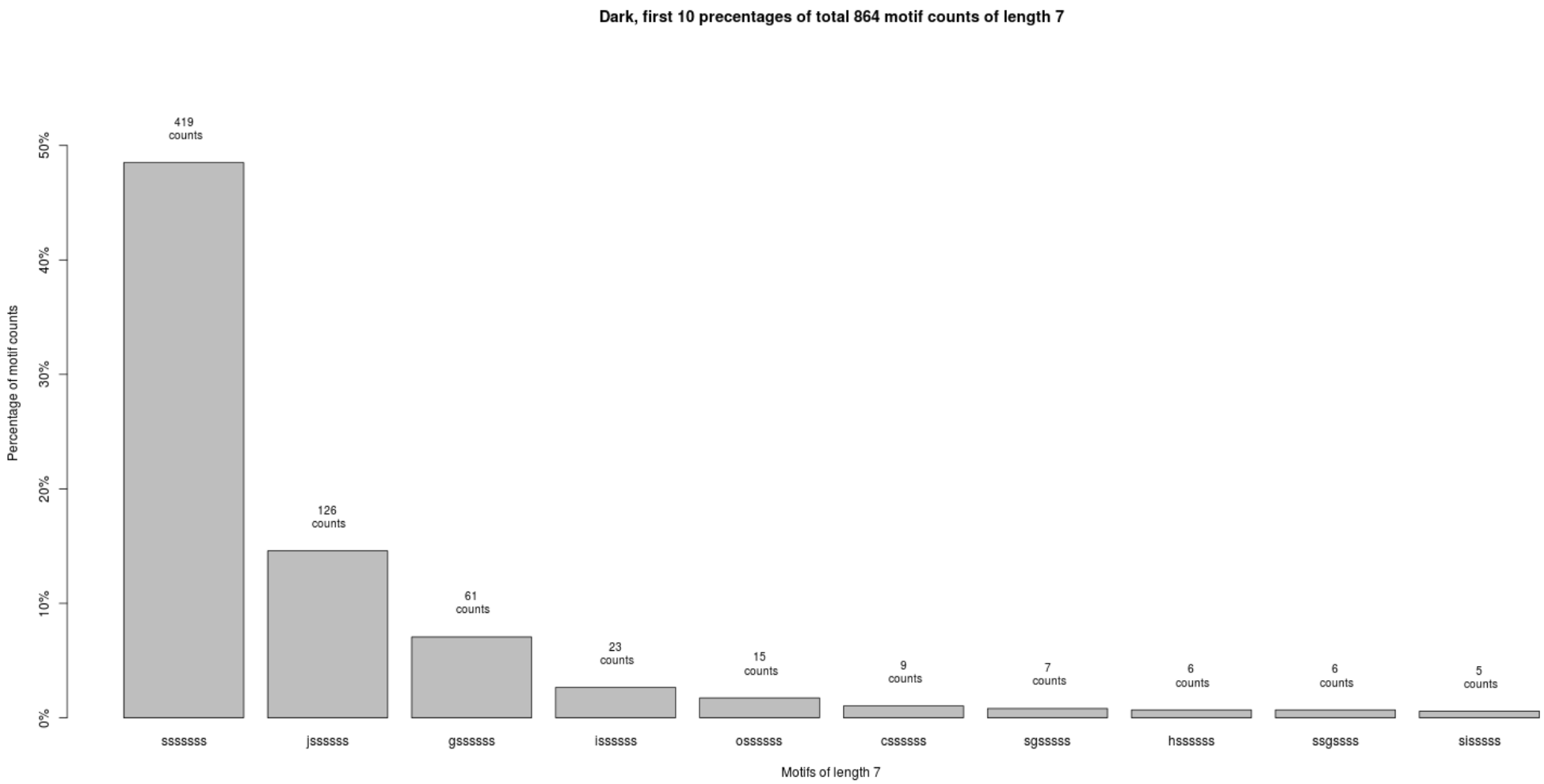
- 
- Dark:


Dark, first 10 precentages of total 6448 motif counts of length 5
Percentage of motif counts
0%
10%
20%
30%
40%
50%
60%
3523 counts
772 counts
671 counts
354 counts
201 counts
120 counts
72 counts
63 counts
40 counts
30 counts
sssss
gssss
jssss
issss
cssss
ossss
sgsss
hssss
sisss
ssgss
Motifs of length 5

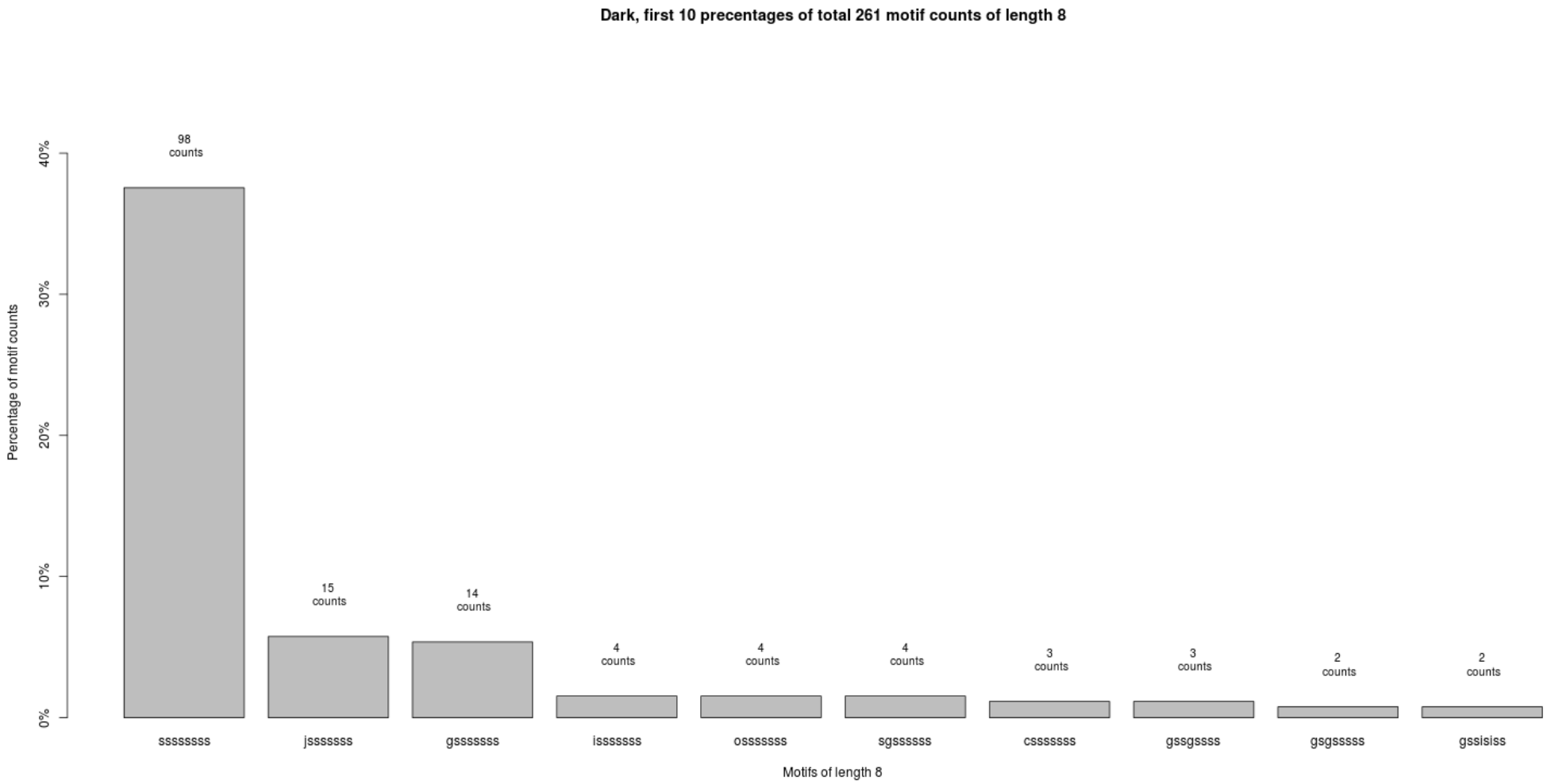
- 
- Dark:


Dark, first 10 precentages of total 1895 motif counts of length 6
Percentage of motif counts
0%
10%
20%
30%
40%
50%
60%
1034 counts
167 counts
137 counts
91 counts
28 counts
25 counts
18 counts
15 counts
14 counts
14 counts
ssssss
gsssss
jsssss
isssss
sgssss
osssss
csssss
ssisss
gsgsss
hsssss
Motifs of length 6

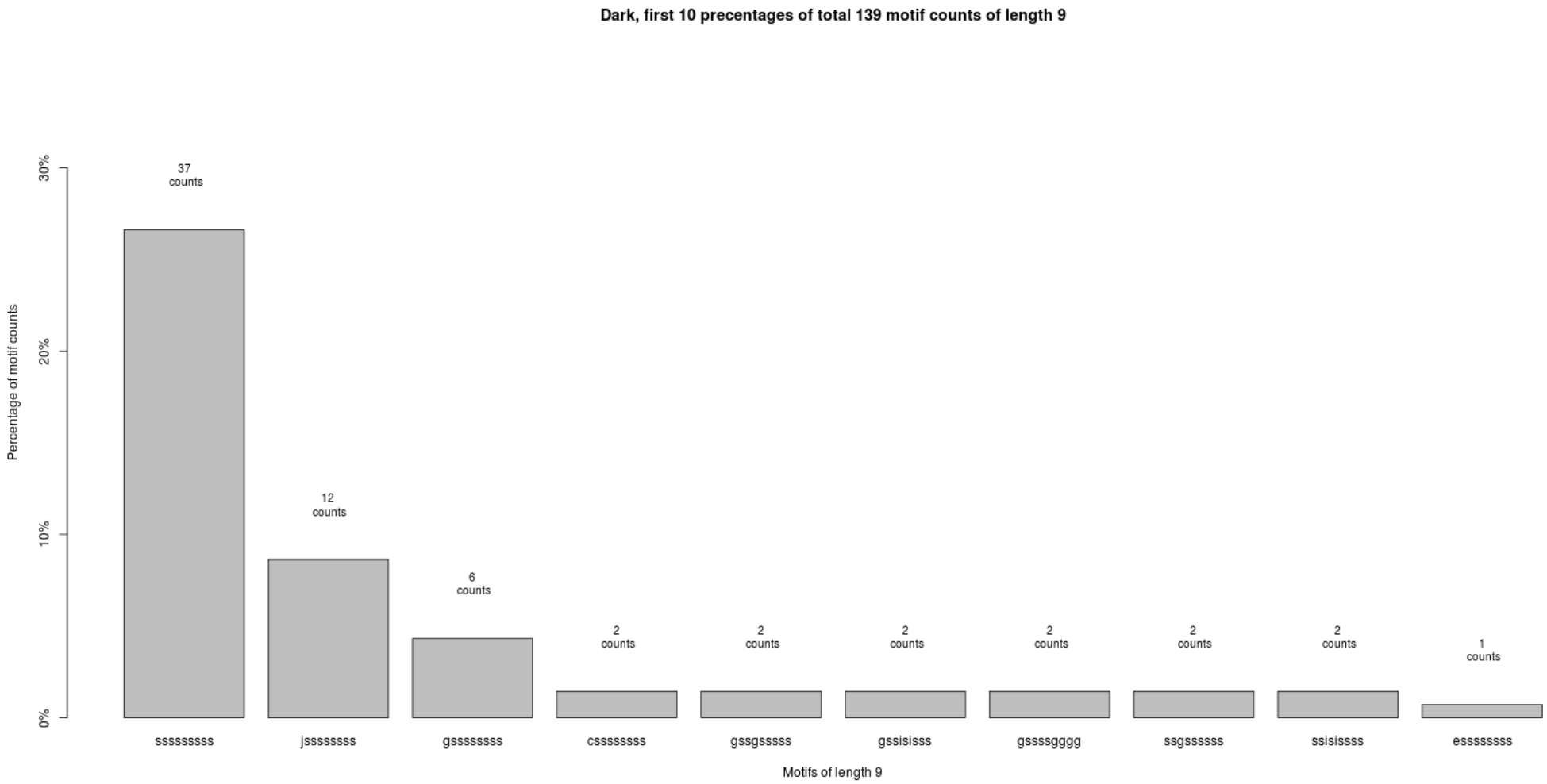
- 
- Dark:


Dark, first 10 precentages of total 864 motif counts of length 7
Percentage of motif counts
0%
10%
20%
30%
40%
50%
419 counts
126 counts
61 counts
23 counts
15 counts
9 counts
7 counts
6 counts
6 counts
5 counts
sssssss
jssssss
gssssss
isssssss
ossssss
csssssss
sgsssss
hsssssss
ssgssss
sissssss
Motifs of length 7

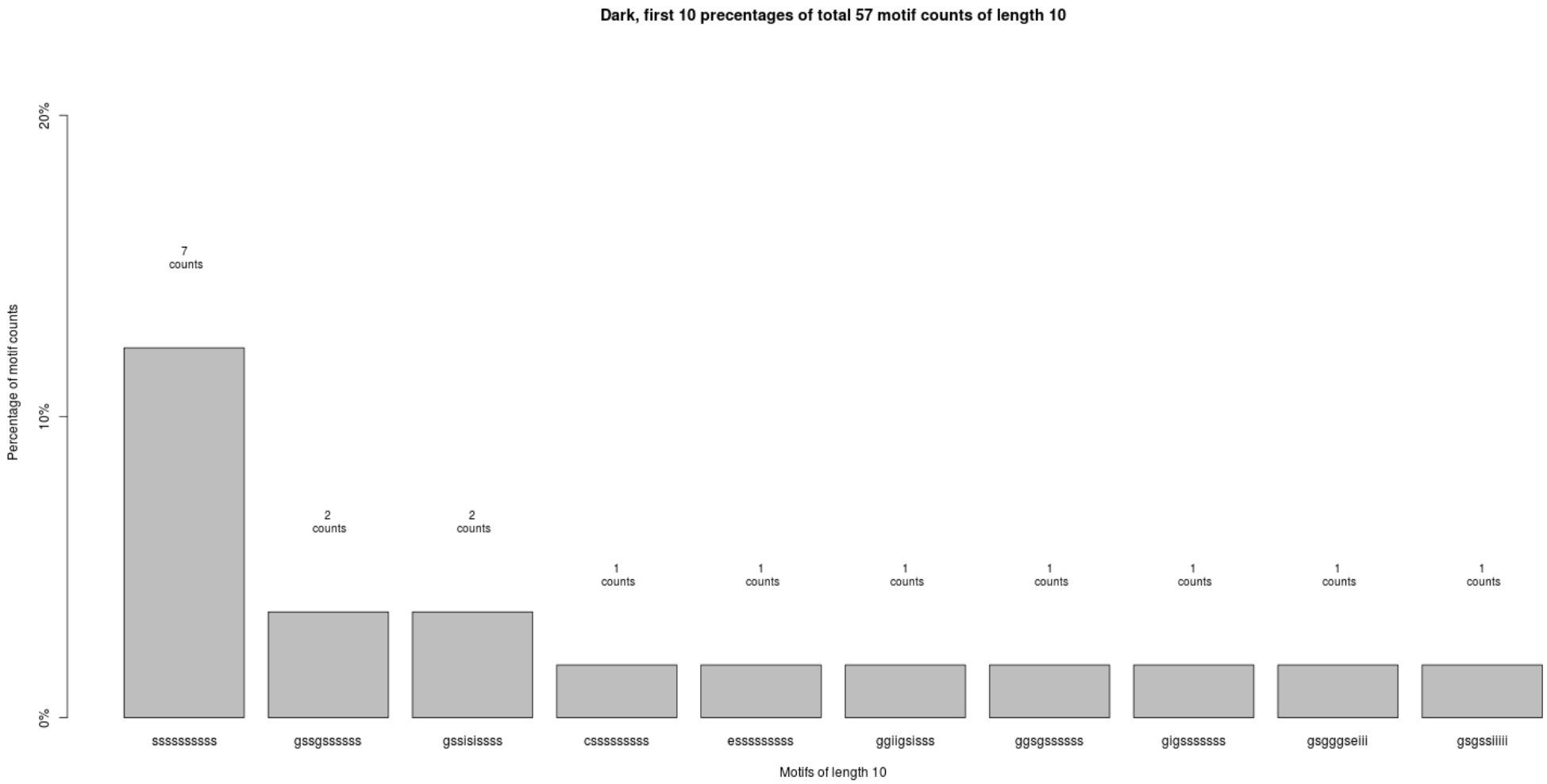
- 
- Dark:


Dark, first 10 precentages of total 261 motif counts of length 8
Percentage of motif counts
0%
10%
20%
30%
40%
98 counts
15 counts
14 counts
4 counts
4 counts
4 counts
3 counts
3 counts
2 counts
2 counts
ssssssss
jssssssss
gssssssss
issssssss
ossssssss
sgssssss
csssssss
gssgssss
gsgssssss
gssisiss
Motifs of length 8

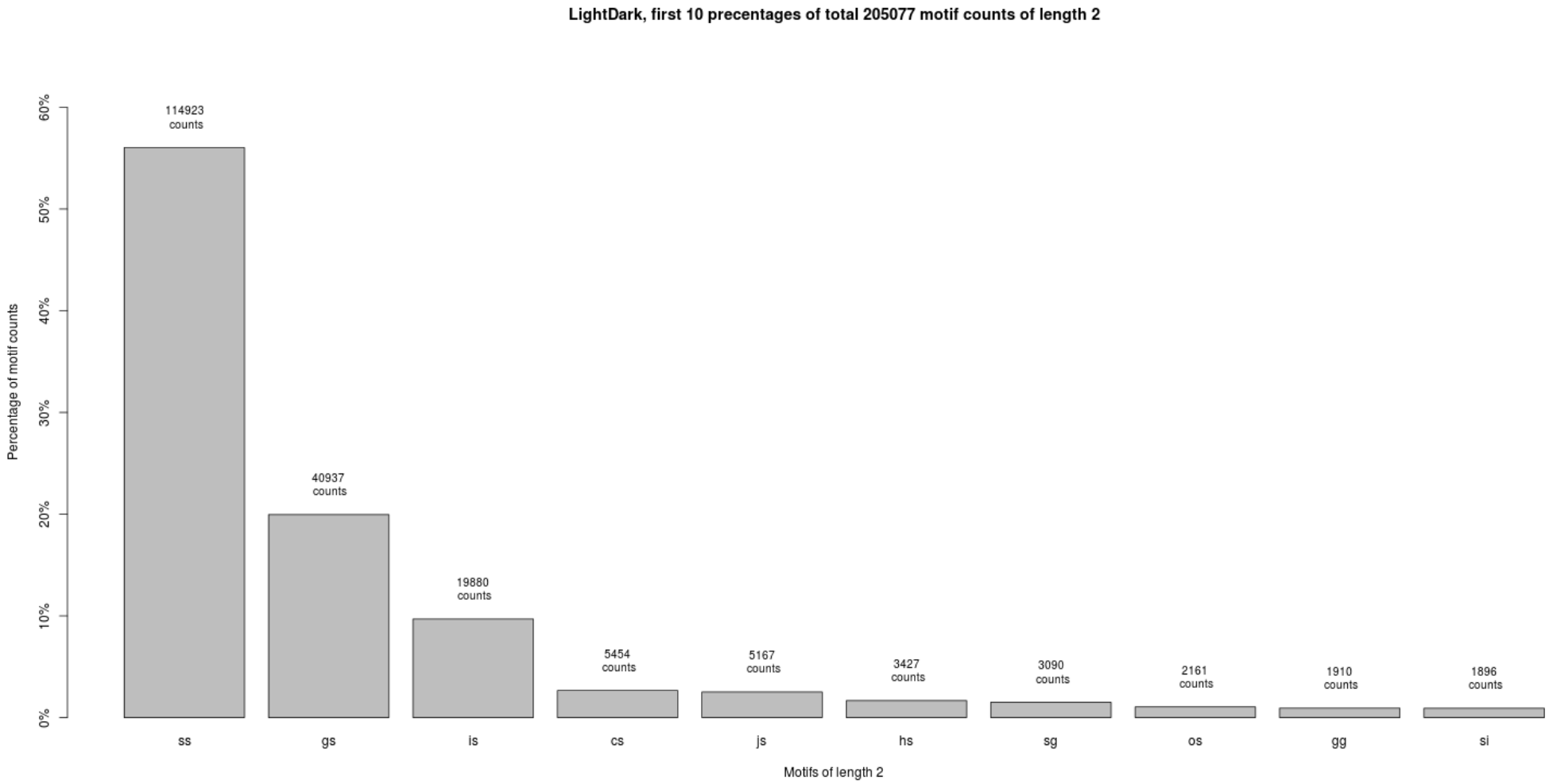
- 
- Dark:


Dark, first 10 precentages of total 139 motif counts of length 9
Percentage of motif counts
0%
10%
20%
30%
37 counts
12 counts
6 counts
2 counts
2 counts
2 counts
2 counts
2 counts
2 counts
1 counts
sssssssss
jsssssss
gsssssss
cssssssss
gssgsssss
gssisisss
gsssgggg
ssgssssss
ssisisss
essssssss
Motifs of length 9

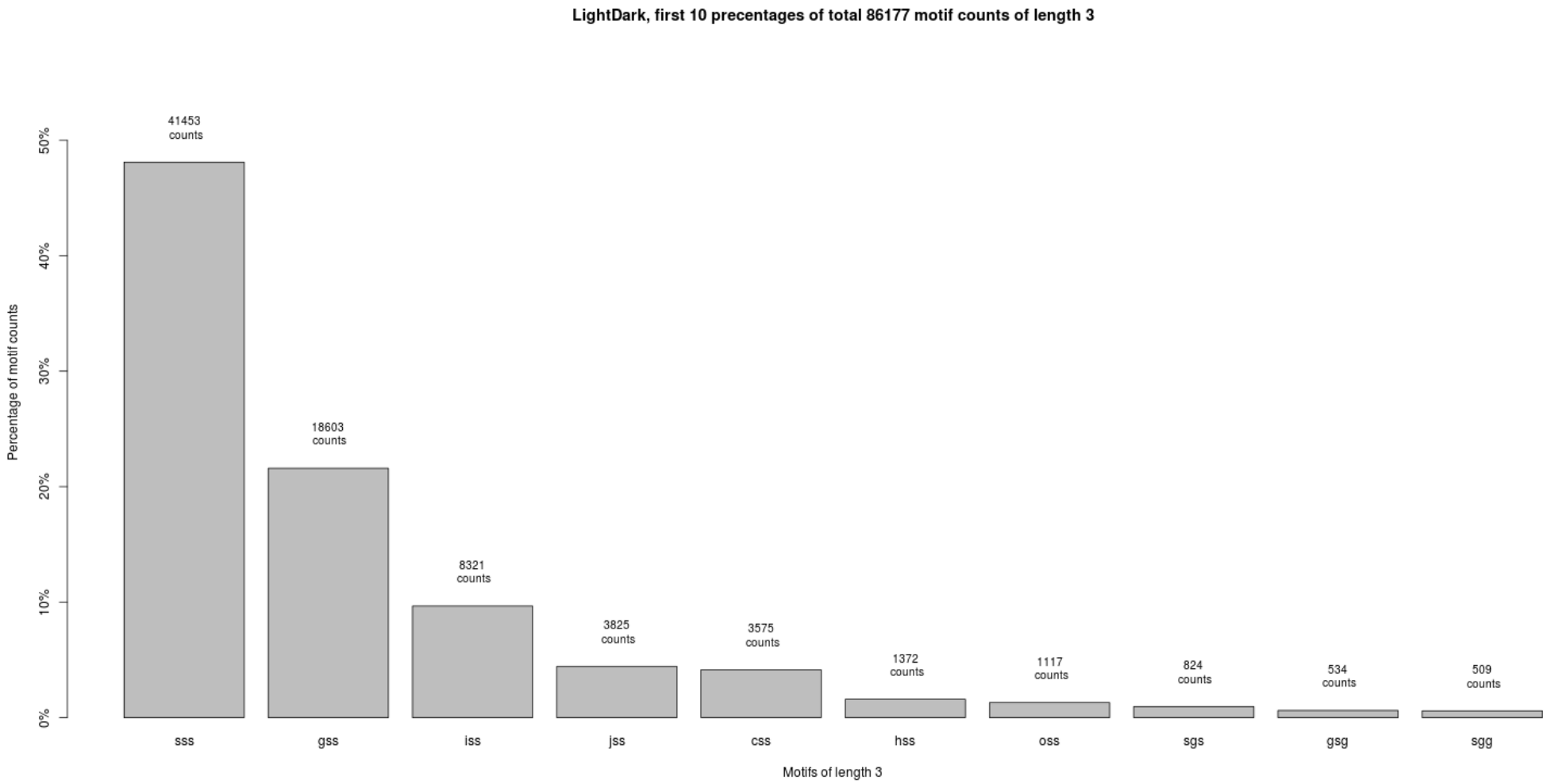
- 
- Dark:


Dark, first 10 precentages of total 57 motif counts of length 10
Percentage of motif counts
0%
10%
20%
7 counts
2 counts
2 counts
1 counts
1 counts
1 counts
1 counts
1 counts
1 counts
1 counts
sssssssss
gssgssssss
gssisissss
csssssssss
essssssss
ggiigsisss
ggsgssssss
gigsssssss
gsgggseiii
gsgssiiiii
Motifs of length 10

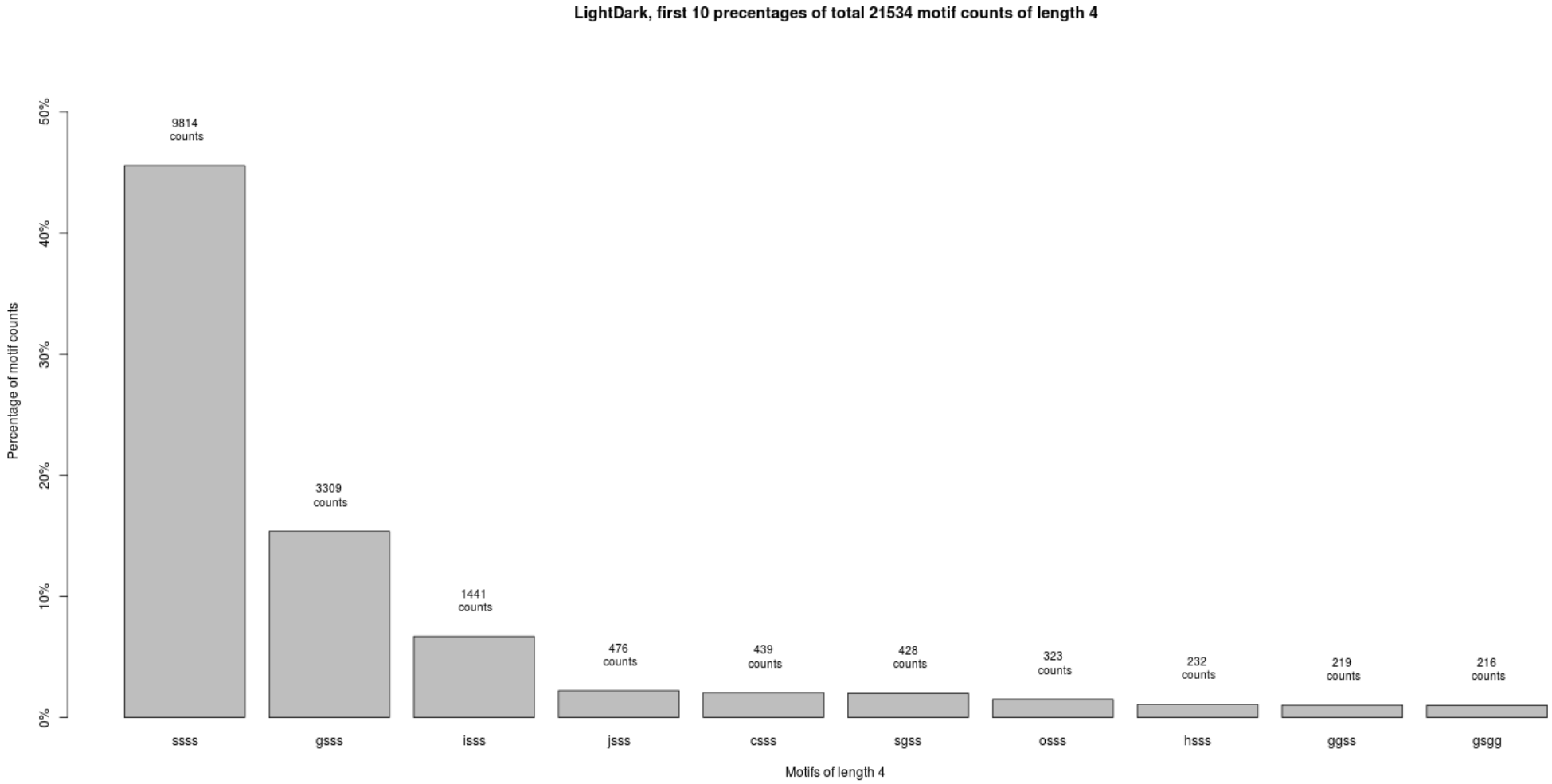
- LightDark:


LightDark, first 10 precentages of total 205077 motif counts of length 2
Percentage of motif counts
0%
10%
20%
30%
40%
50%
60%
114923 counts
40937 counts
19880 counts
5454 counts
5167 counts
3427 counts
3090 counts
2161 counts
1910 counts
1896 counts
ss
gs
is
cs
js
hs
sg
os
gg
si
Motifs of length 2

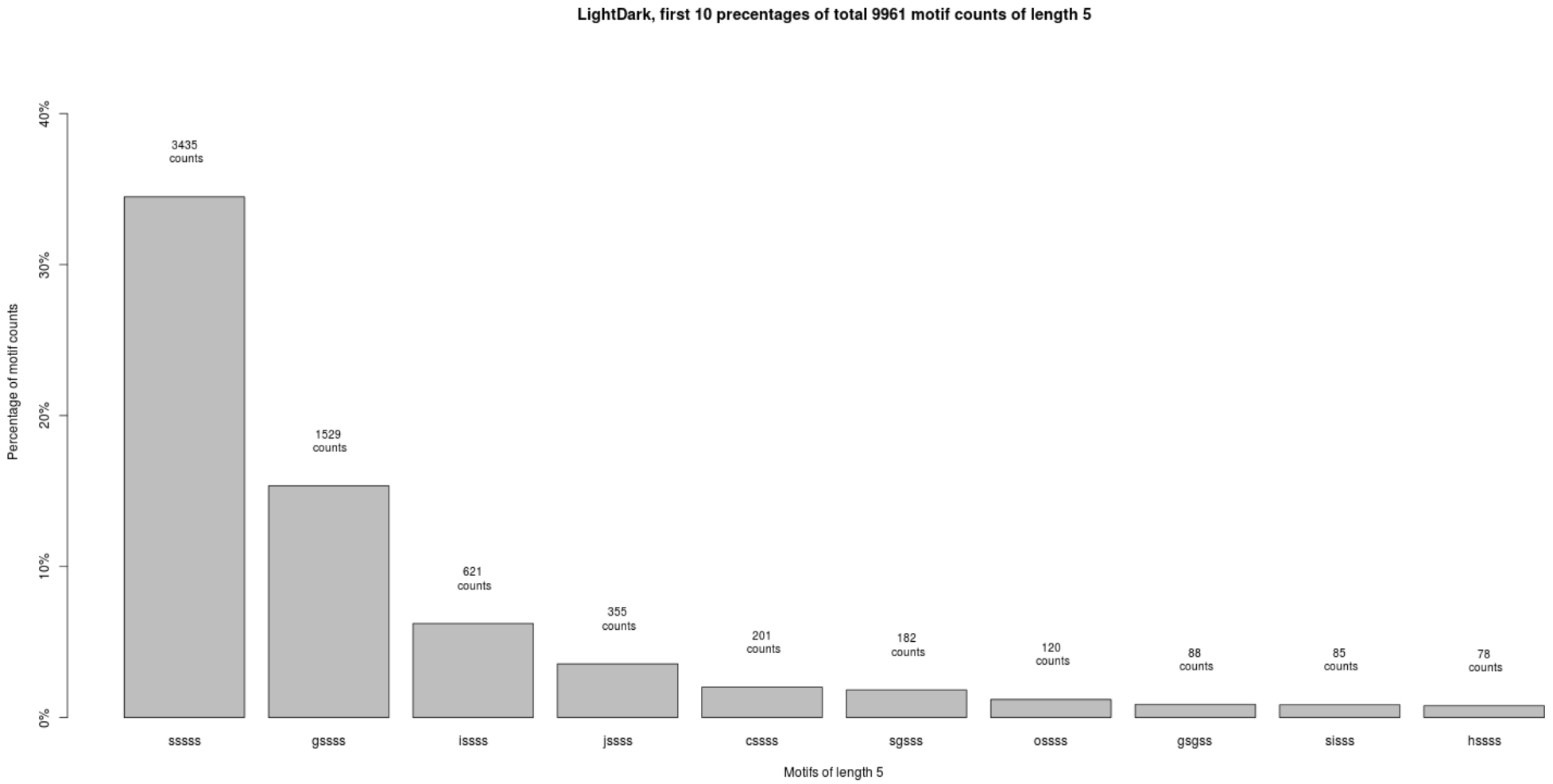
- LightDark:


LightDark, first 10 precentages of total 86177 motif counts of length 3
Percentage of motif counts
0%
10%
20%
30%
40%
50%
41453 counts
18603 counts
8321 counts
3825 counts
3575 counts
1372 counts
1117 counts
824 counts
534 counts
509 counts
sss
gss
iss
jss
css
hss
oss
sgs
gsg
sgg
Motifs of length 3

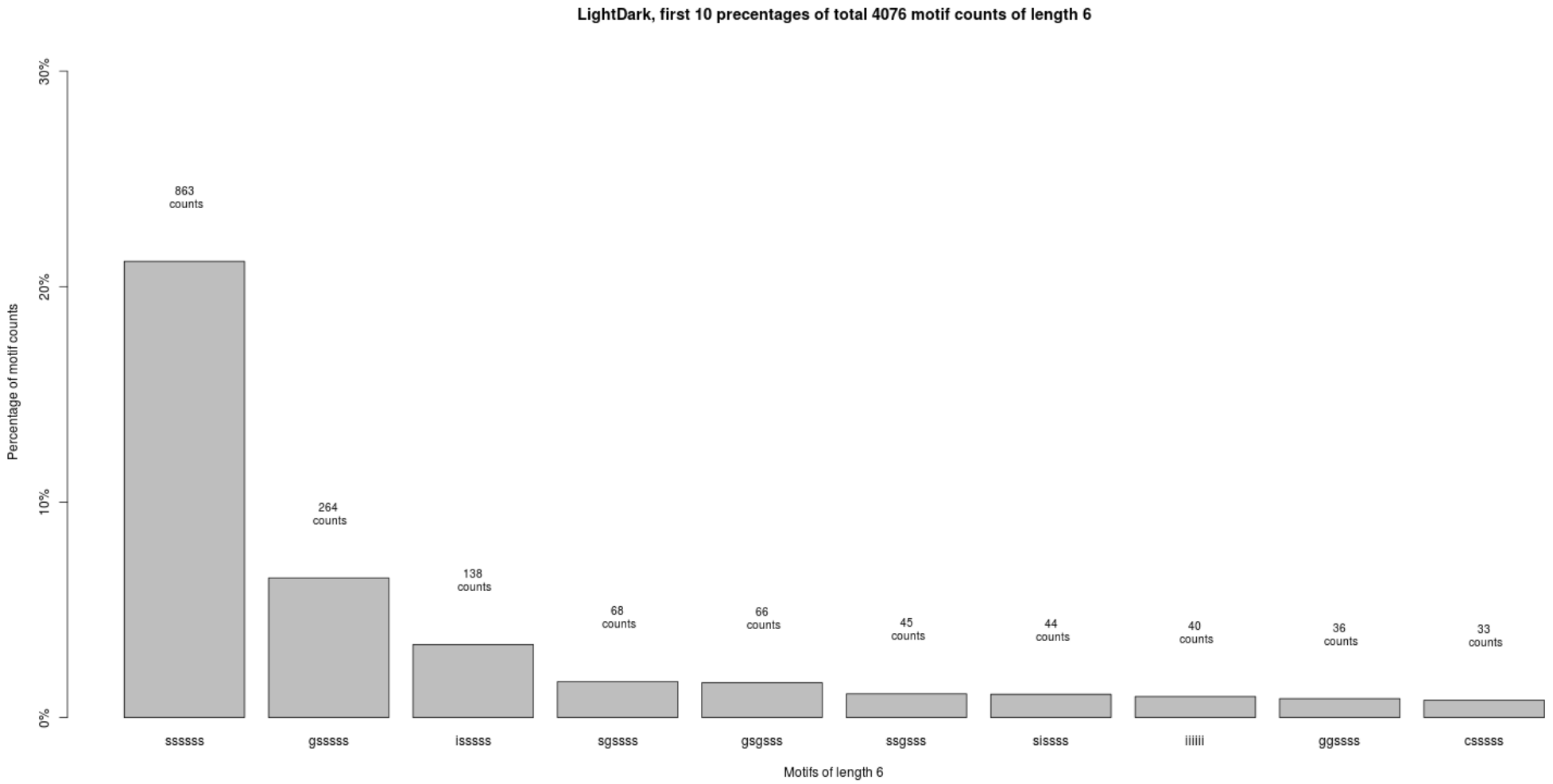
- 
- LightDark:


LightDark, first 10 precentages of total 21534 motif counts of length 4
Percentage of motif counts
0%
10%
20%
30%
40%
50%
9814 counts
3309 counts
1441 counts
476 counts
439 counts
428 counts
323 counts
232 counts
219 counts
216 counts
ssss
gsss
isss
jsss
csss
sgss
osss
hsss
ggss
gsgg
Motifs of length 4

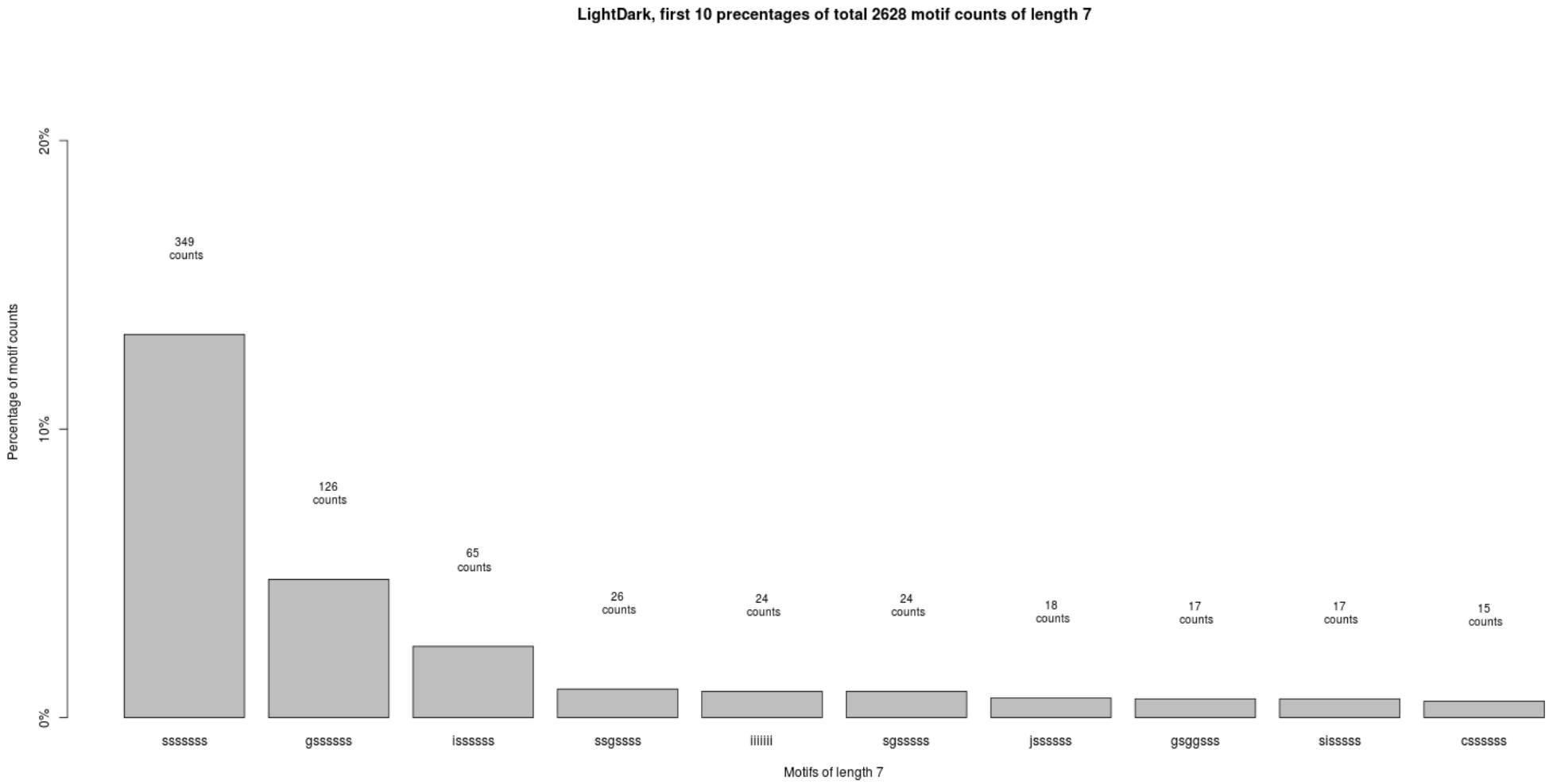
- LightDark:


LightDark, first 10 precentages of total 9961 motif counts of length 5
Percentage of motif counts
0%
10%
20%
30%
40%
3435 counts
1529 counts
621 counts
355 counts
201 counts
182 counts
120 counts
88 counts
85 counts
78 counts
sssss
gssss
issss
jssss
cssss
sgsss
ossss
gsgss
sisss
hssss
Motifs of length 5

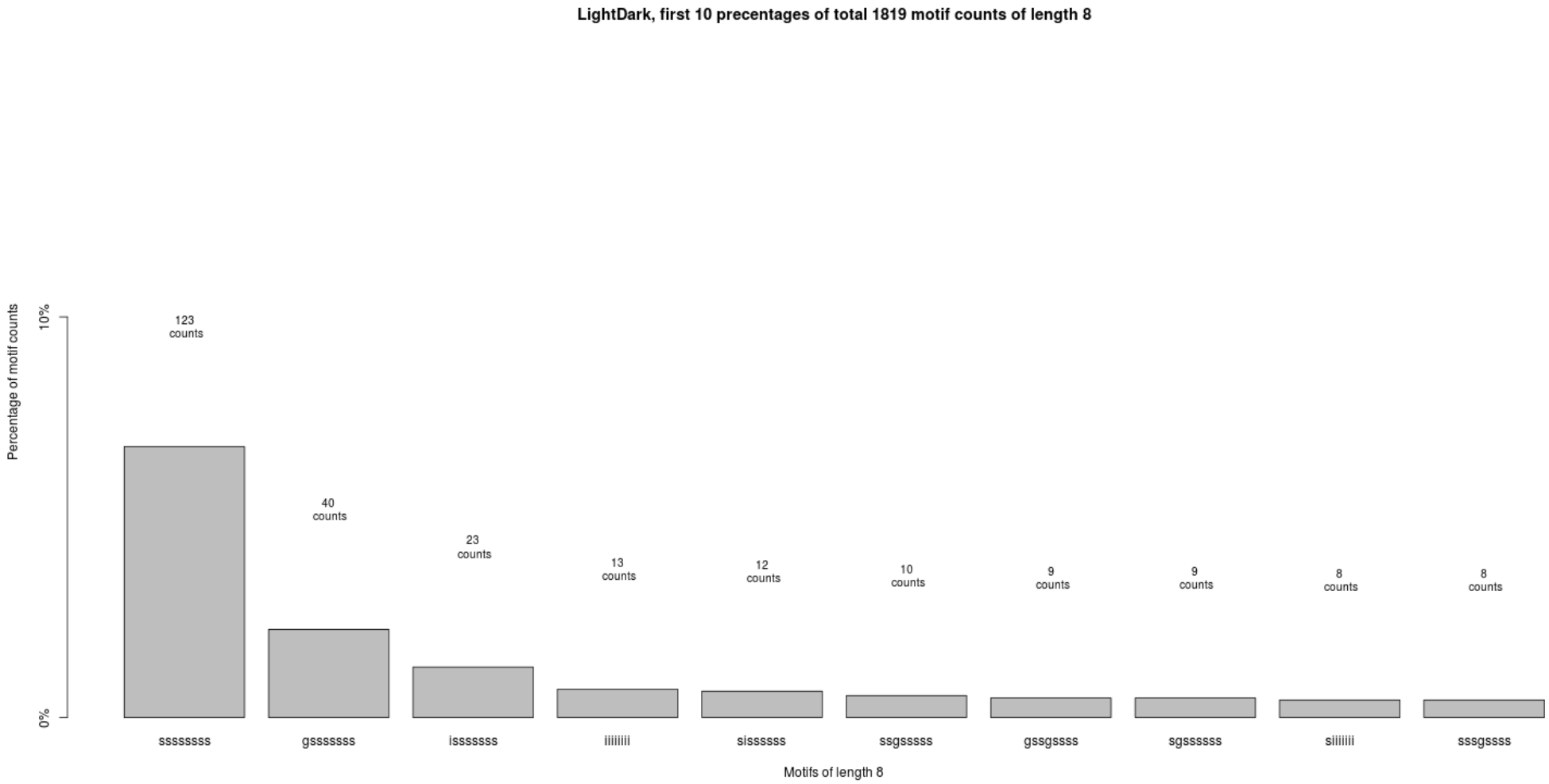
- LightDark:


LightDark, first 10 precentages of total 4076 motif counts of length 6
Percentage of motif counts
0%
10%
20%
30%
863 counts
264 counts
138 counts
68 counts
66 counts
45 counts
44 counts
40 counts
36 counts
33 counts
ssssss
gssssss
isssss
sgssss
gsgsss
ssgsss
sissss
iiiiii
ggssss
cssssss
Motifs of length 6

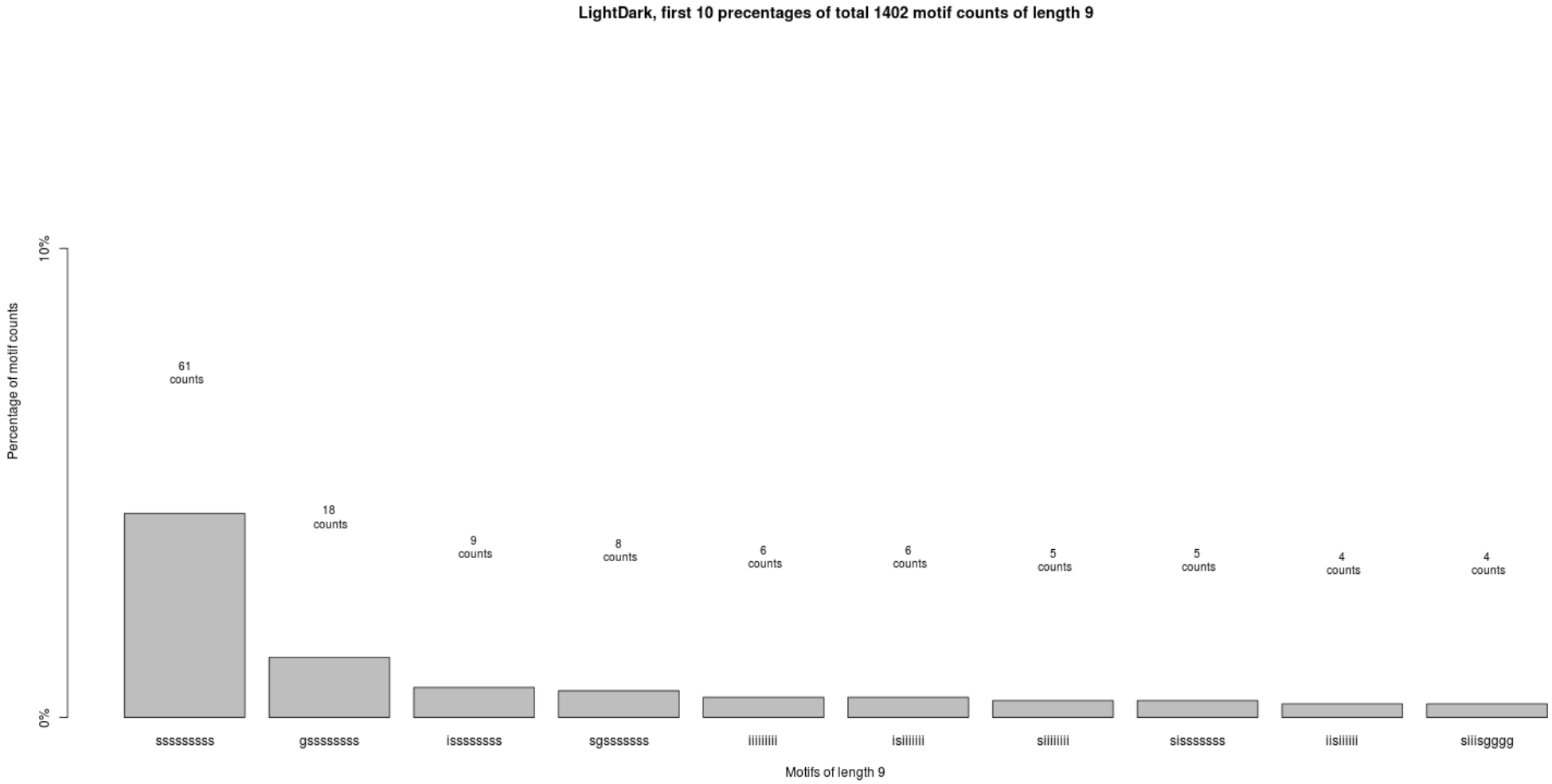
- 
- LightDark:


LightDark, first 10 precentages of total 2628 motif counts of length 7
Percentage of motif counts
0%
10%
20%
349 counts
126 counts
65 counts
26 counts
24 counts
24 counts
18 counts
17 counts
17 counts
15 counts
sssssss
gssssss
issssss
ssgssss
iiiiiii
sgsssss
jssssss
gsggsss
sissssss
csssssss
Motifs of length 7

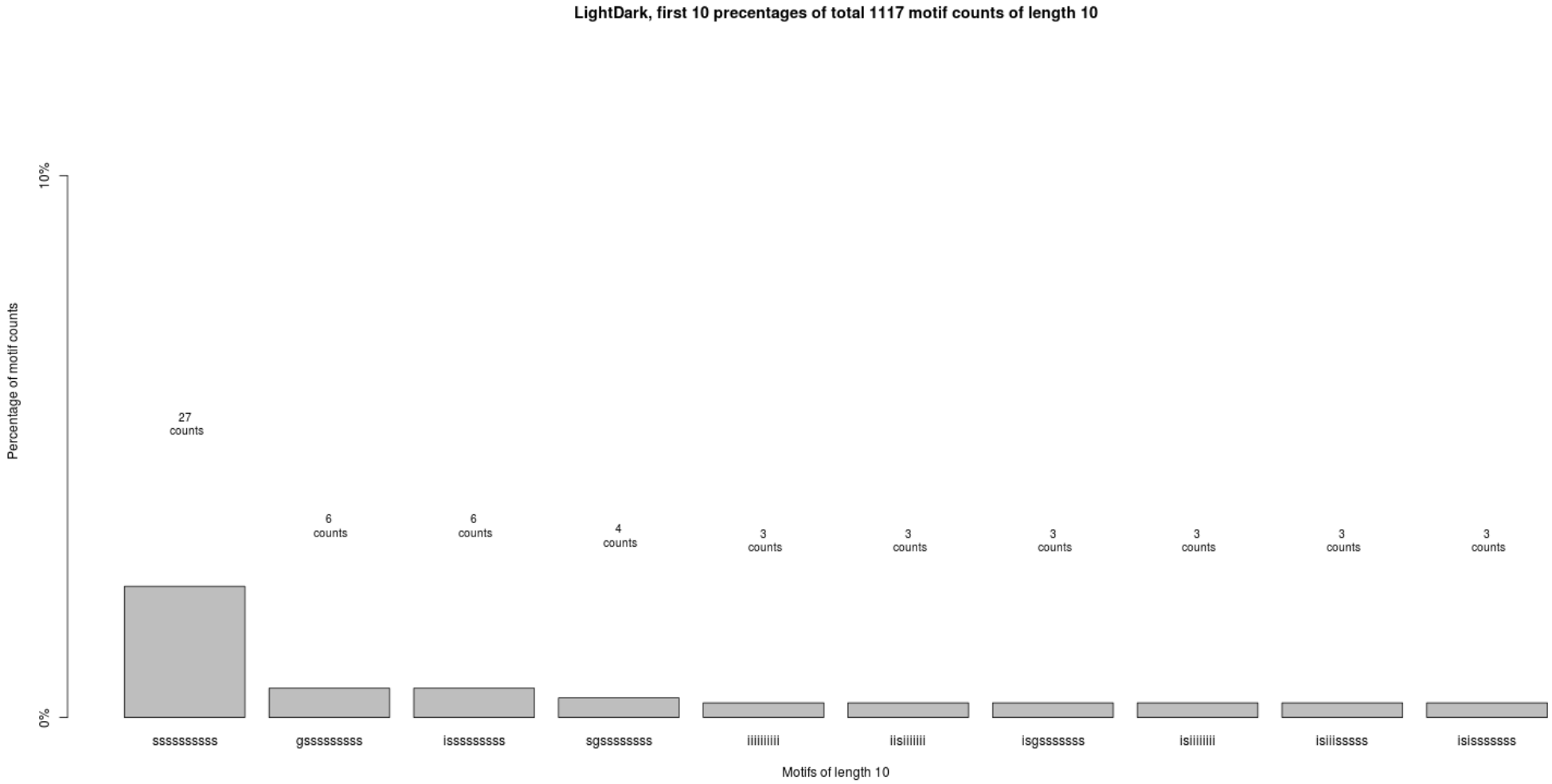
- LightDark:


LightDark, first 10 precentages of total 1819 motif counts of length 8
Percentage of motif counts
10%
0%
123 counts
40 counts
23 counts
13 counts
12 counts
10 counts
9 counts
9 counts
8 counts
8 counts
ssssssss
gssssssss
issssssss
iiiiiiii
sissssss
ssgsssss
gssgssss
sgsssssss
siiiiiii
sssgssss
Motifs of length 8

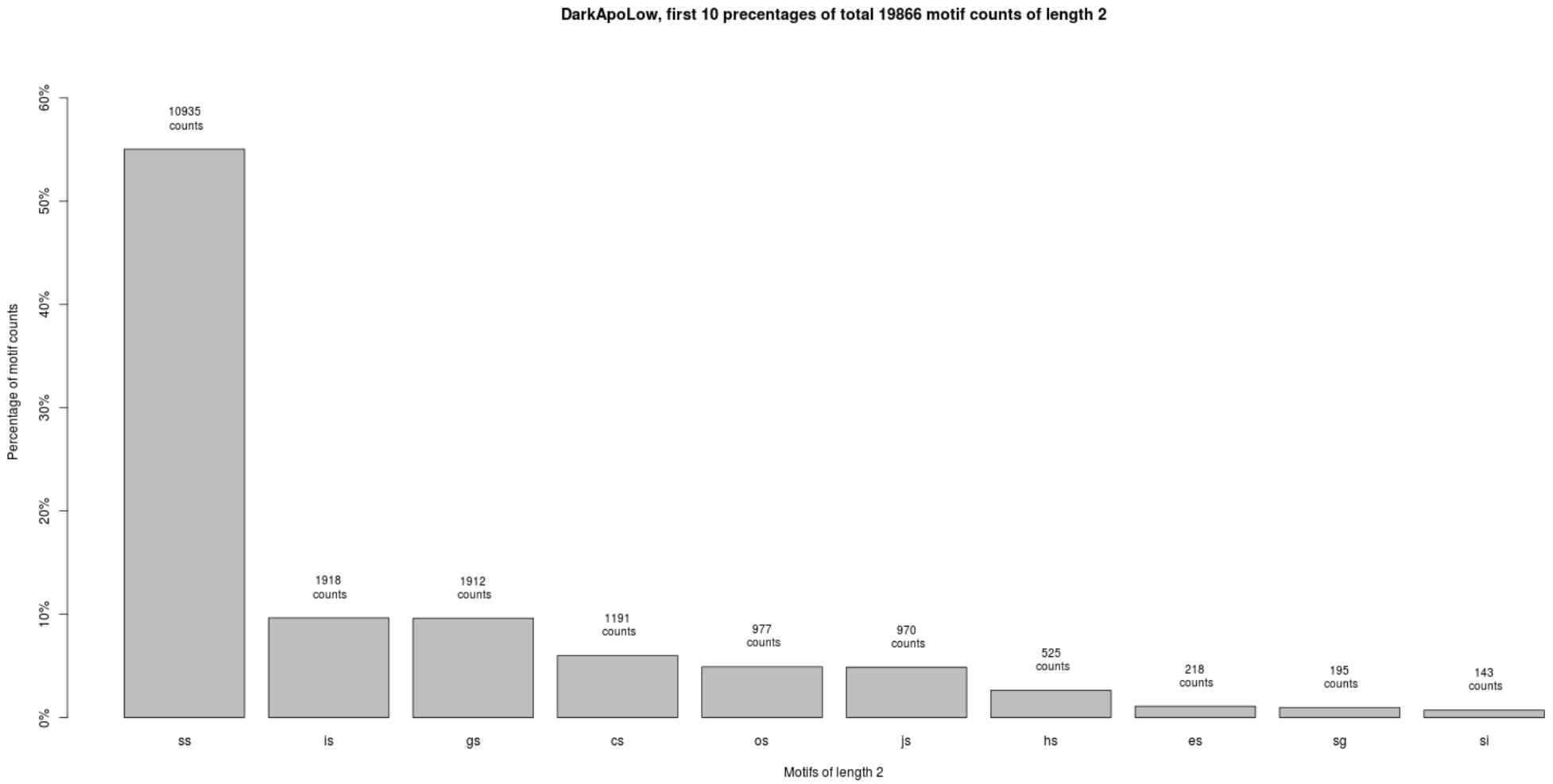
- LightDark:


LightDark, first 10 precentages of total 1402 motif counts of length 9
Percentage of motif counts
10%
0%
61 counts
18 counts
9 counts
8 counts
6 counts
6 counts
5 counts
5 counts
4 counts
4 counts
sssssssss
gsssssssss
isssssssss
sgsssssss
iiiiiiiii
isiiiiiii
siiiiiiii
sisssssss
iisiiiiii
siiisgggg
Motifs of length 9

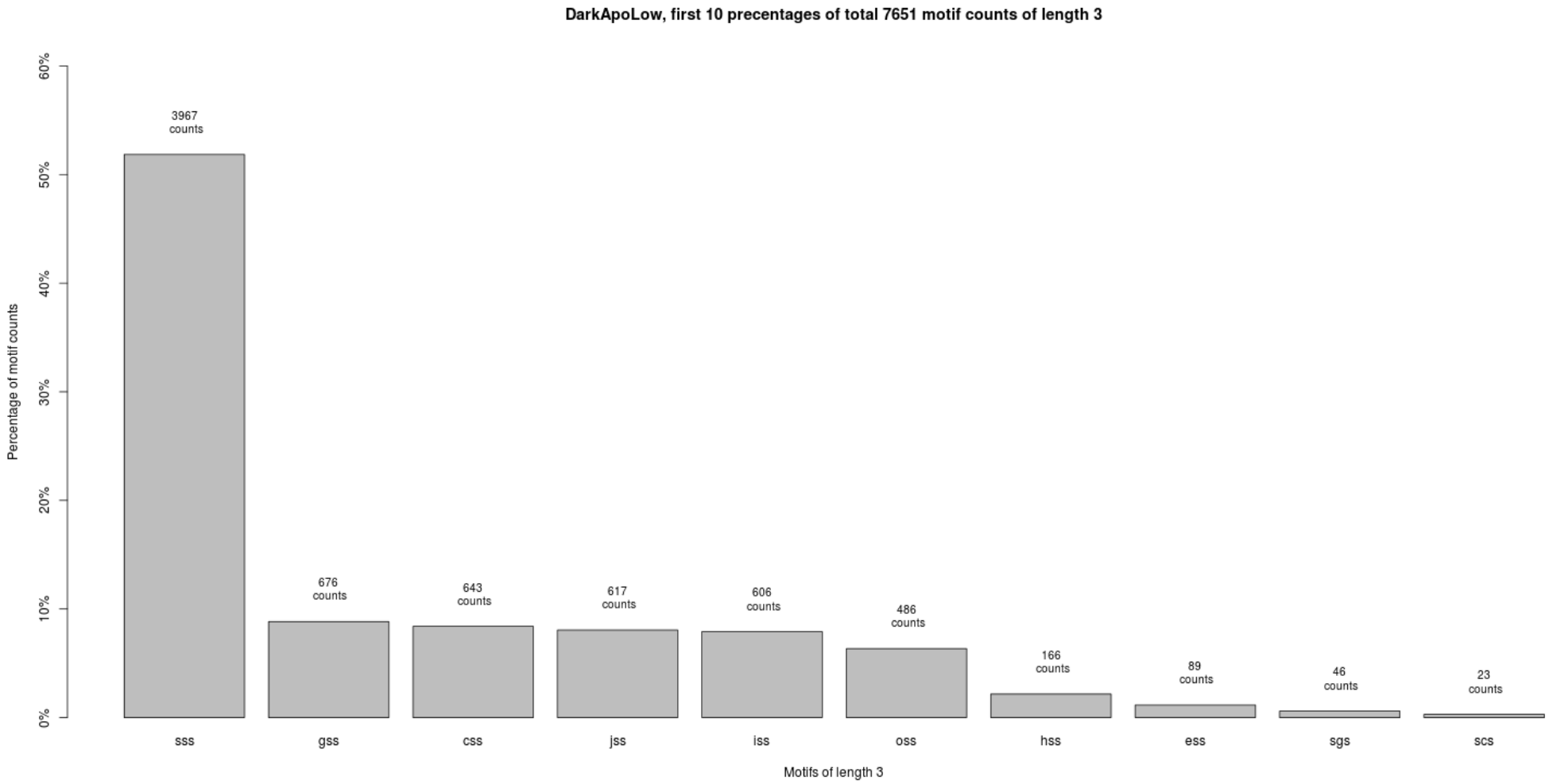
- LightDark:


LightDark, first 10 precentages of total 1117 motif counts of length 10
Percentage of motif counts
10%
0%
27 counts
6 counts
6 counts
4 counts
3 counts
3 counts
3 counts
3 counts
3 counts
3 counts
ssssssssss
gsssssssss
isssssssss
sgsssssssss
iiiiiiiii
iisiiiiii
isgsssssss
isiiiiiii
isiiissss
isisssssss
Motifs of length 10

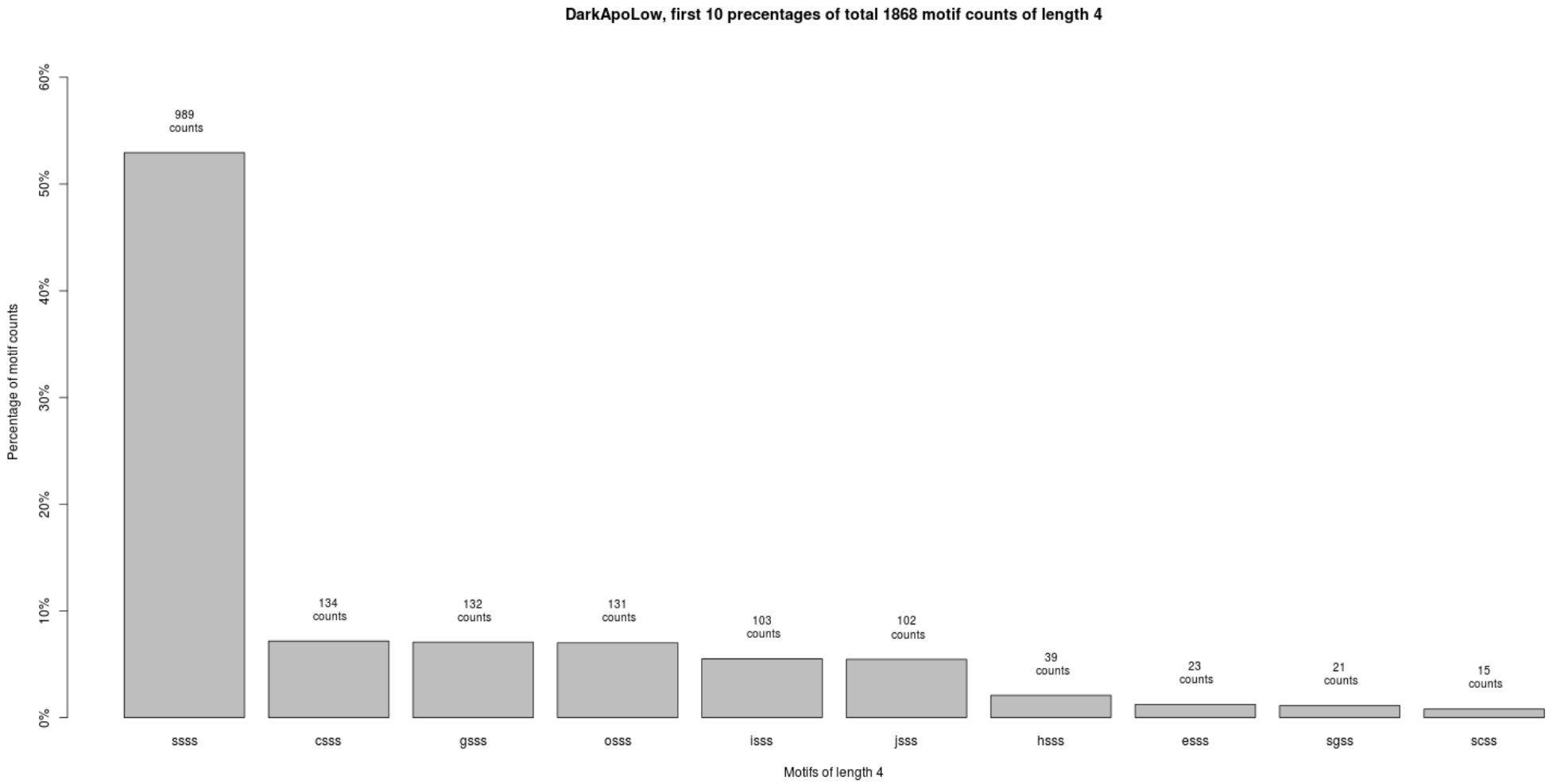
- 
- (Dark)ApoLow:


DarkApoLow, first 10 precentages of total 19866 motif counts of length 2
Percentage of motif counts
0%
10%
20%
30%
40%
50%
60%
10935 counts
1918 counts
1912 counts
1191 counts
977 counts
970 counts
525 counts
218 counts
195 counts
143 counts
ss
is
gs
cs
os
js
hs
es
sg
si
Motifs of length 2

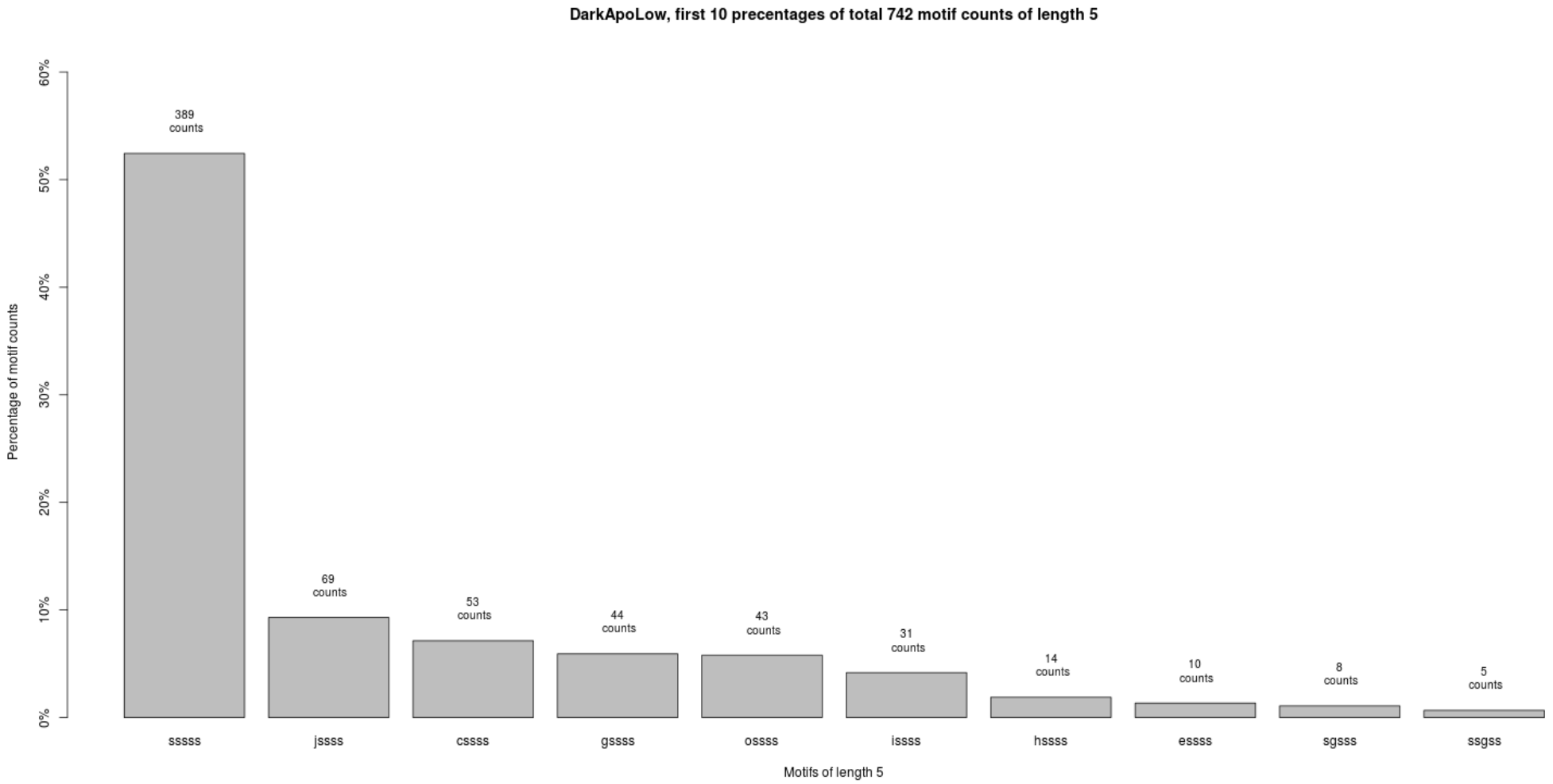
- 
- (Dark)ApoLow:


DarkApoLow, first 10 precentages of total 7651 motif counts of length 3
Percentage of motif counts
0%
10%
20%
30%
40%
50%
60%
3967 counts
676 counts
643 counts
617 counts
606 counts
486 counts
166 counts
89 counts
46 counts
23 counts
sss
gss
css
jss
iss
oss
hss
ess
sgs
scs
Motifs of length 3

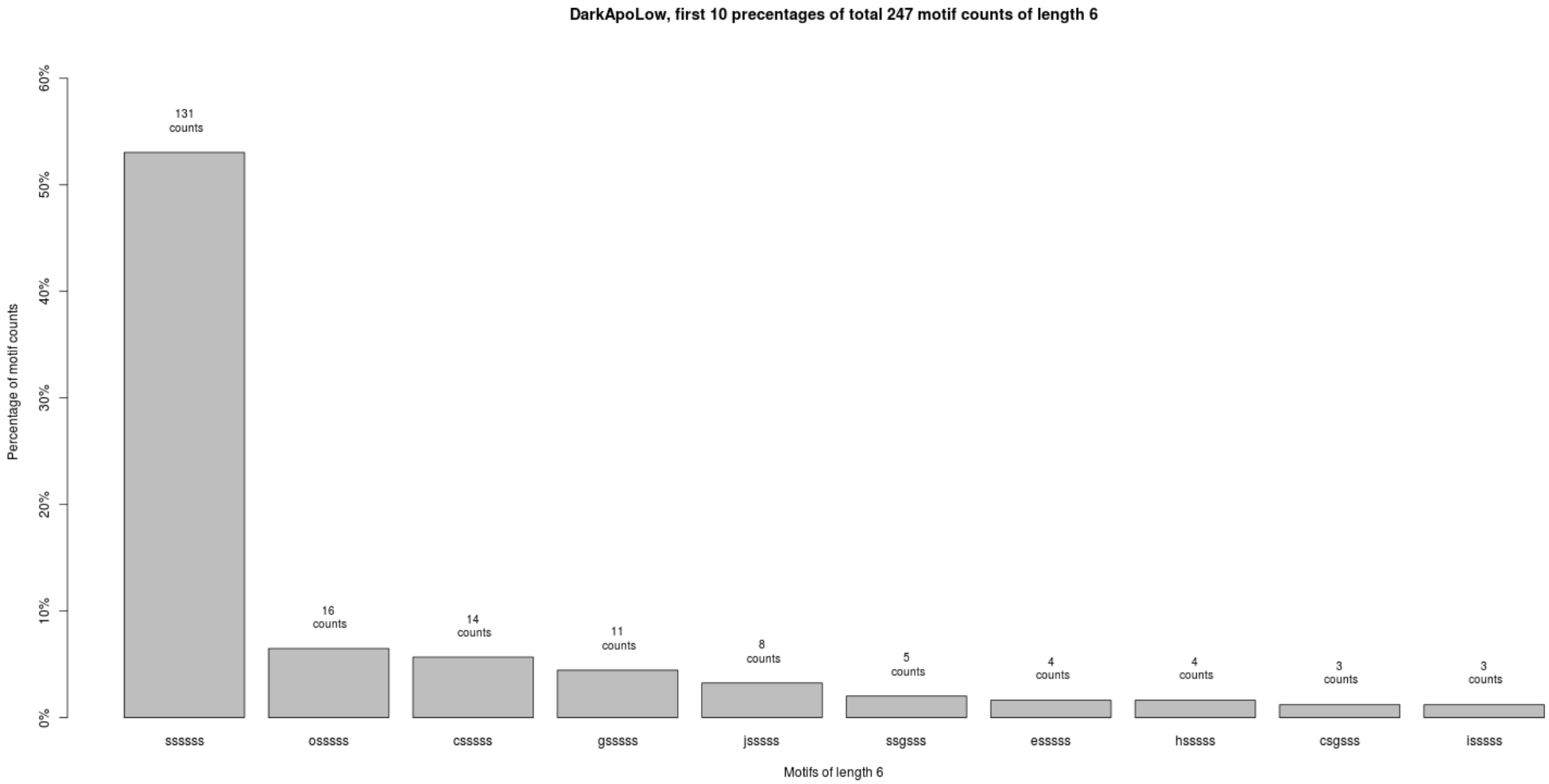
- (Dark)ApoLow:


DarkApoLow, first 10 precentages of total 1868 motif counts of length 4
Percentage of motif counts
0%
10%
20%
30%
40%
50%
60%
989 counts
134 counts
132 counts
131 counts
103 counts
102 counts
39 counts
23 counts
21 counts
15 counts
ssss
csss
gsss
osss
isss
jsss
hsss
esss
sgss
scss
Motifs of length 4

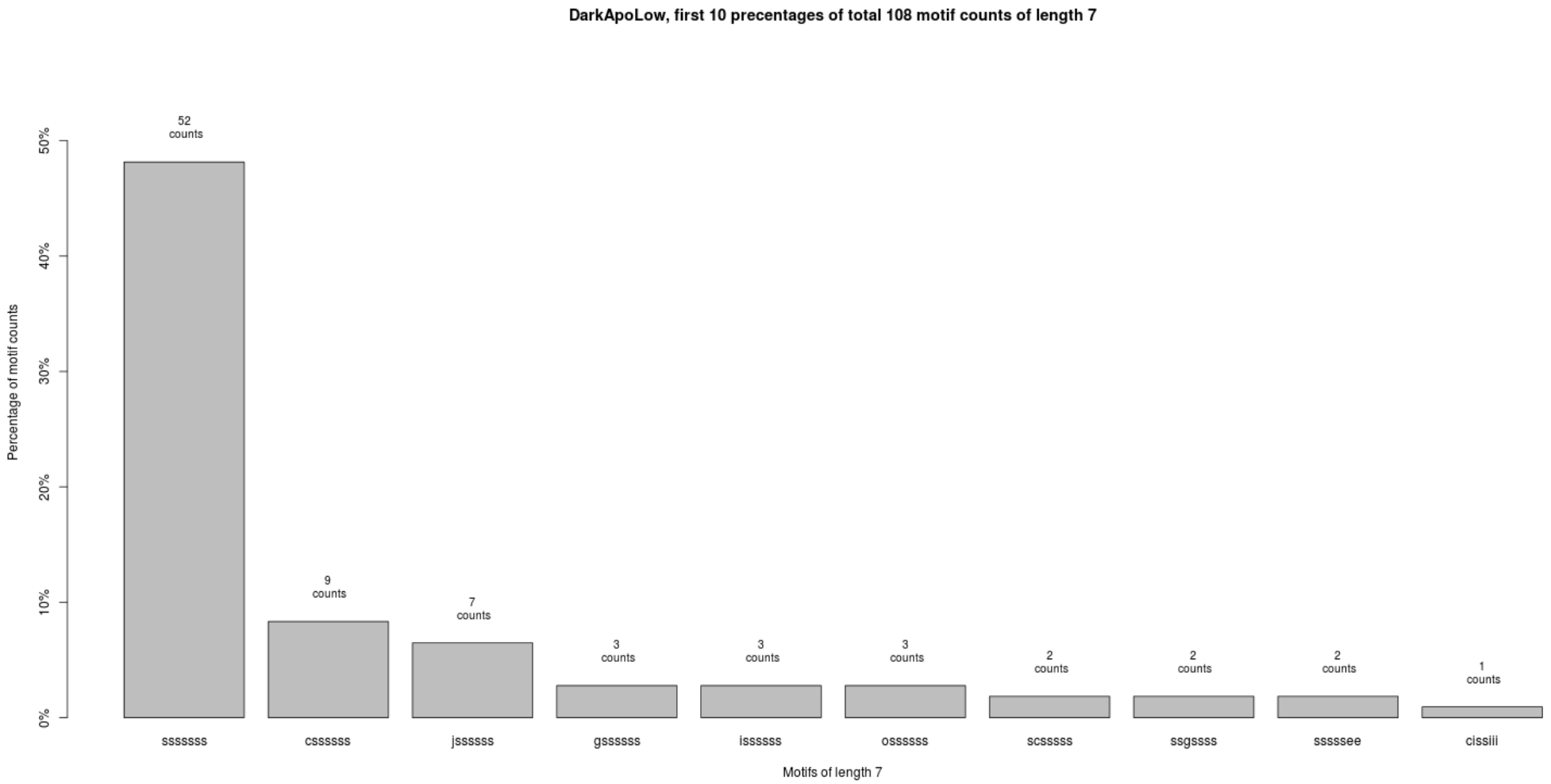
- (Dark)ApoLow:


DarkApoLow, first 10 precentages of total 742 motif counts of length 5
Percentage of motif counts
0%
10%
20%
30%
40%
50%
60%
389 counts
69 counts
53 counts
44 counts
43 counts
31 counts
14 counts
10 counts
8 counts
5 counts
sssss
jssss
cssss
gssss
ossss
issss
hssss
essss
sgsss
ssgss
Motifs of length 5

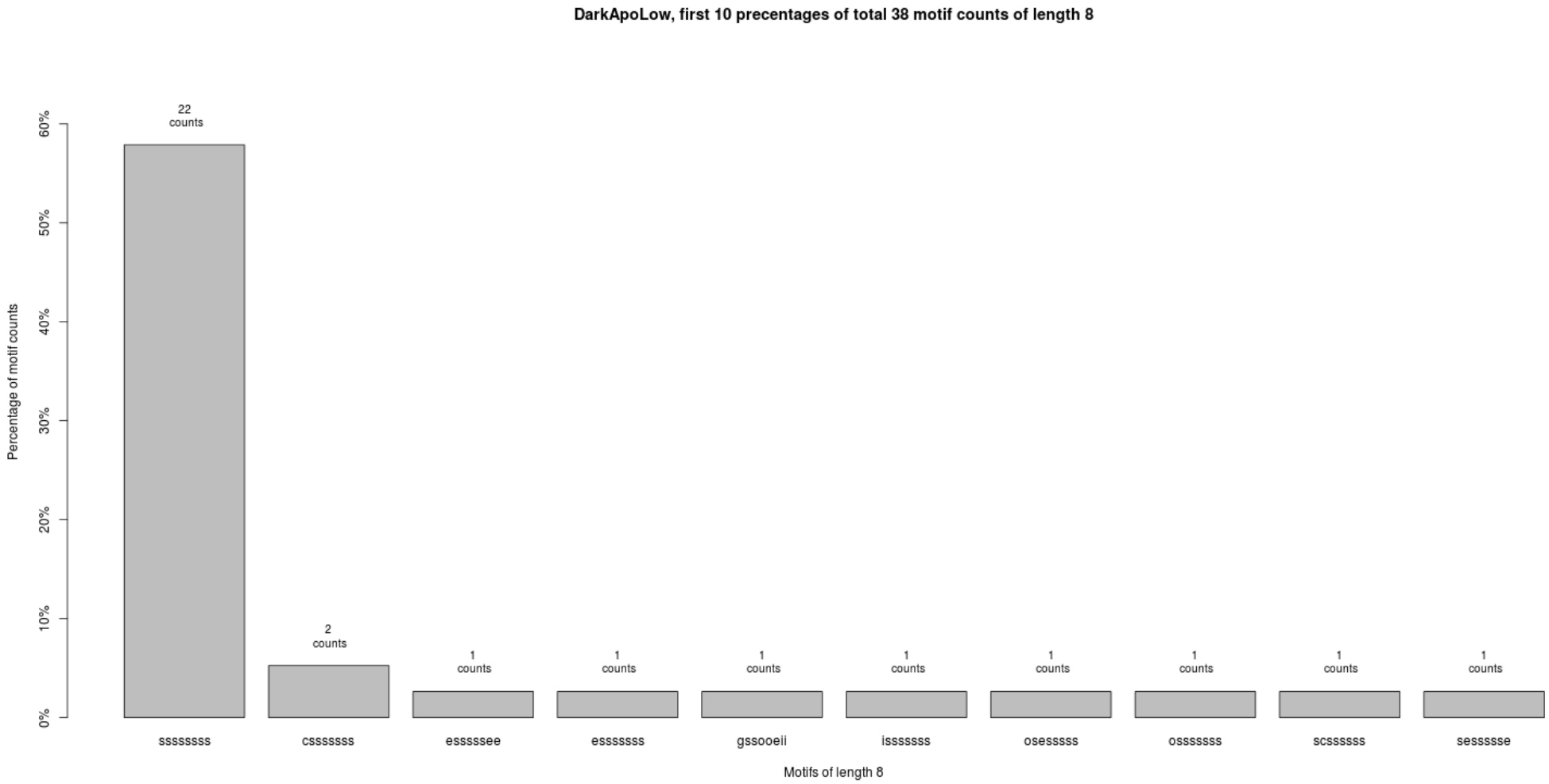
- 
- (Dark)ApoLow:


DarkApoLow, first 10 precentages of total 247 motif counts of length 6
Percentage of motif counts
0%
10%
20%
30%
40%
50%
60%
131 counts
16 counts
14 counts
11 counts
8 counts
5 counts
4 counts
4 counts
3 counts
3 counts
ssssss
osssss
csssss
gsssss
jsssss
ssgsss
esssss
hsssss
csgsss
isssss
Motifs of length 6

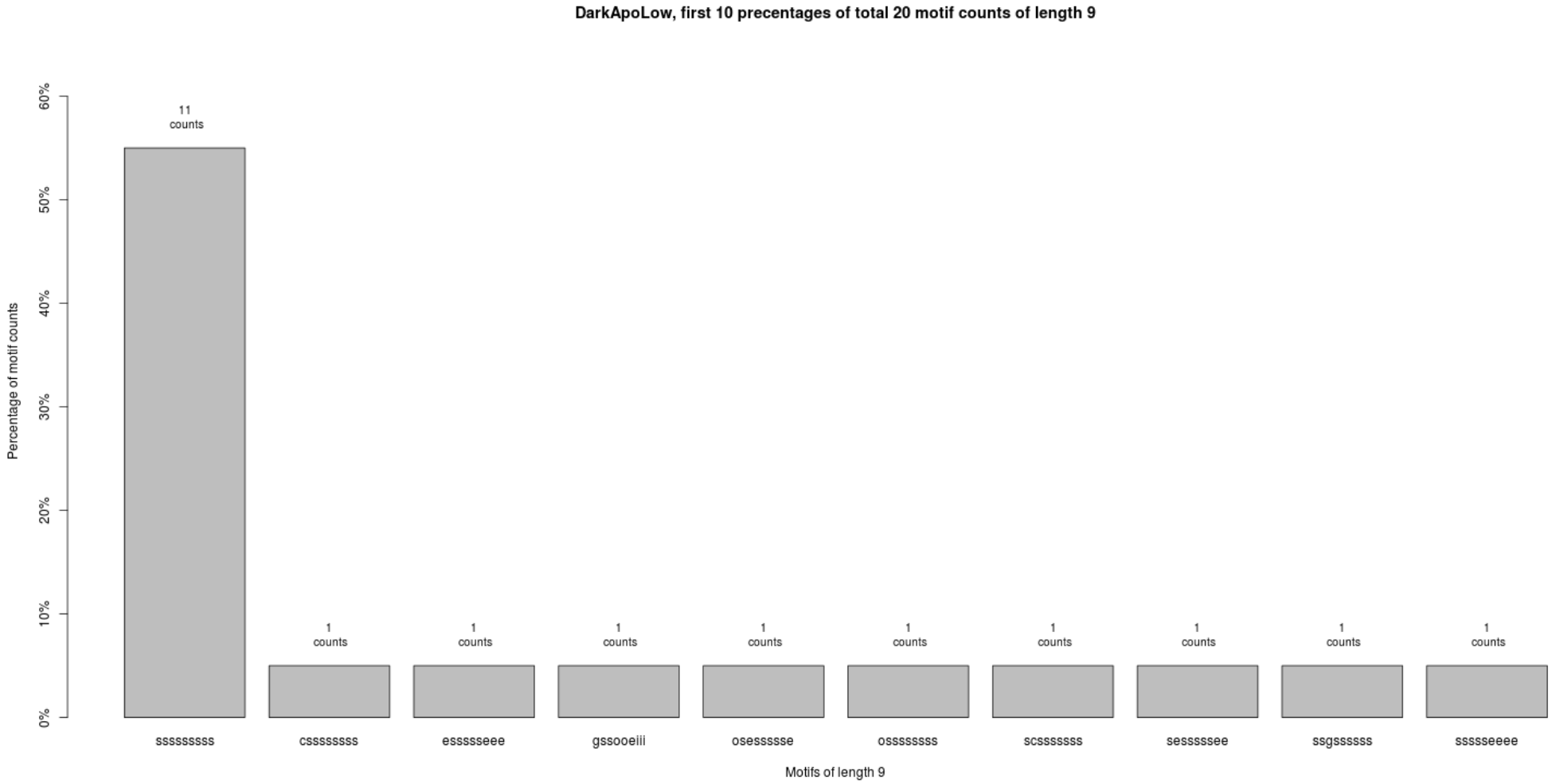
- 
- (Dark)ApoLow:


DarkApoLow, first 10 precentages of total 108 motif counts of length 7
Percentage of motif counts
0%
10%
20%
30%
40%
50%
52 counts
9 counts
7 counts
3 counts
3 counts
3 counts
2 counts
2 counts
2 counts
1 counts
sssssss
csssssss
jssssss
gssssss
isssssss
ossssss
scssssss
ssgssss
sssssee
cissiii
Motifs of length 7

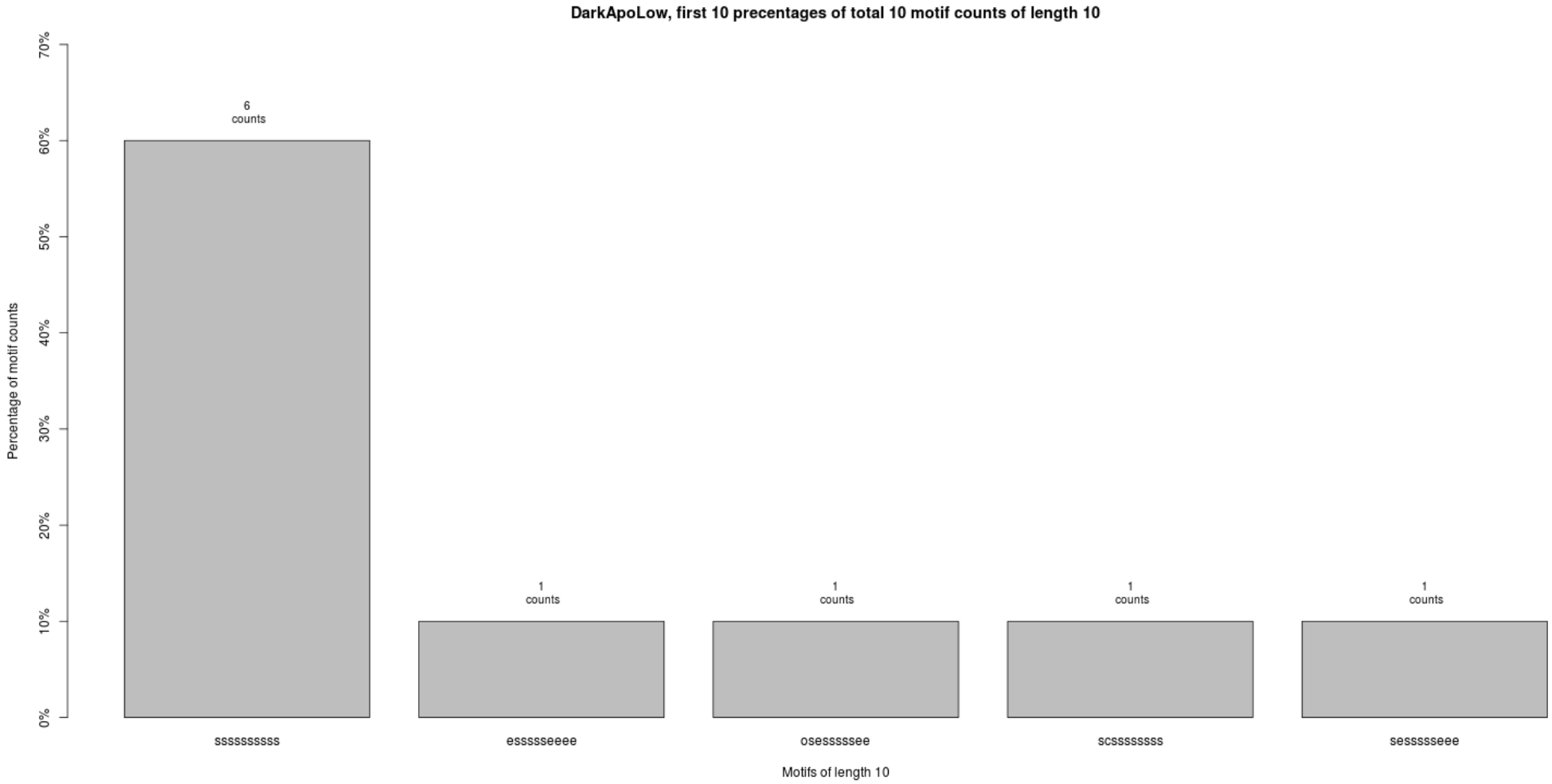
- (Dark)ApoLow:


DarkApoLow, first 10 precentages of total 38 motif counts of length 8
Percentage of motif counts
0%
10%
20%
30%
40%
50%
60%
22 counts
2 counts
1 counts
1 counts
1 counts
1 counts
1 counts
1 counts
1 counts
1 counts
ssssssss
csssssss
essssee
esssssss
gssooeii
isssssss
osessss
osssssss
scssssss
sessssse
Motifs of length 8

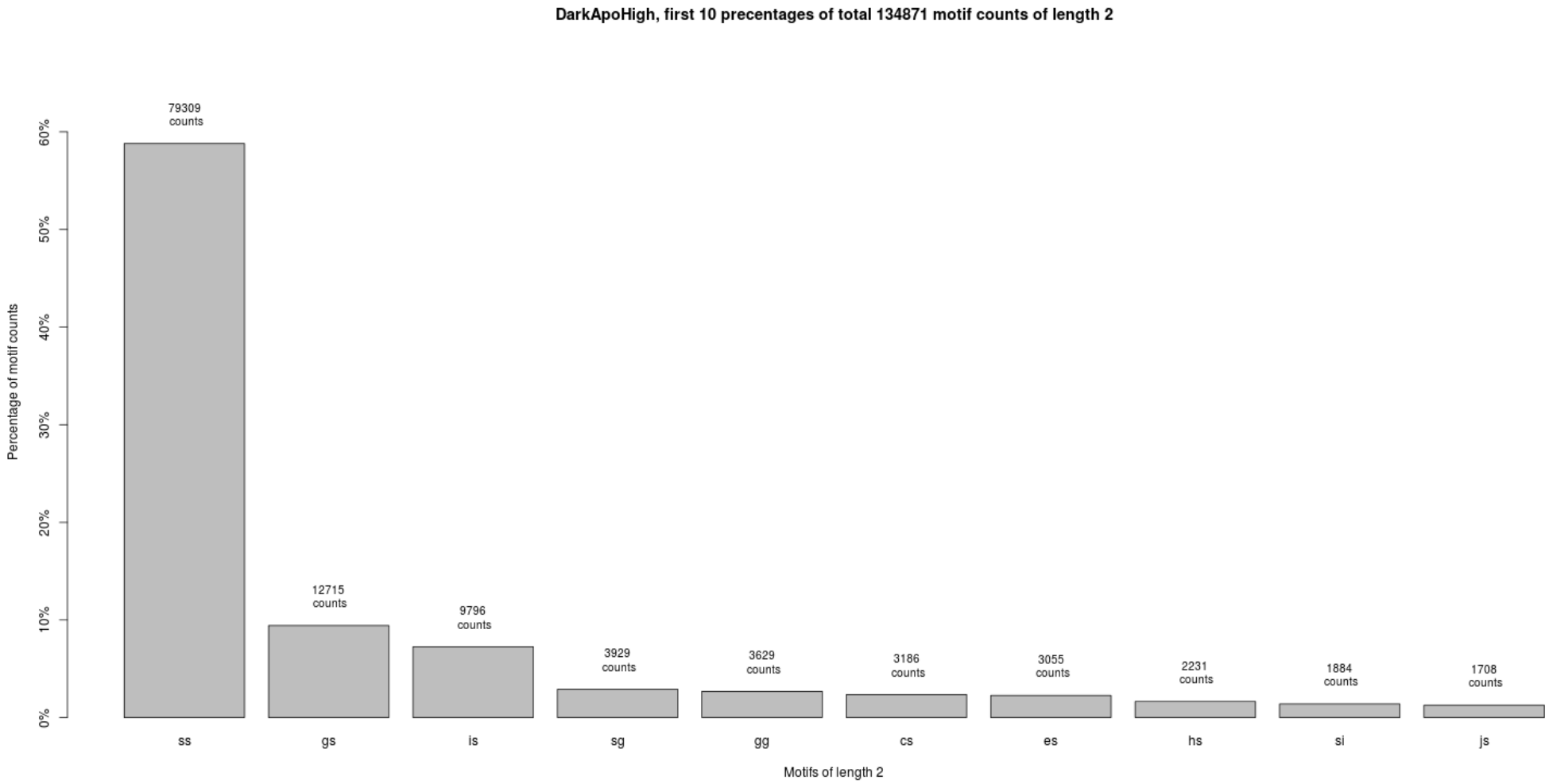
- 
- (Dark)ApoLow:


DarkApoLow, first 10 precentages of total 20 motif counts of length 9
Percentage of motif counts
0%
10%
20%
30%
40%
50%
60%
11
counts
1
counts
ssssssssss
csssssssss
essssseee
gssooeiii
osesssse
ossssssss
scssssss
sessssee
ssgssssss
sssseeee
Motifs of length 9

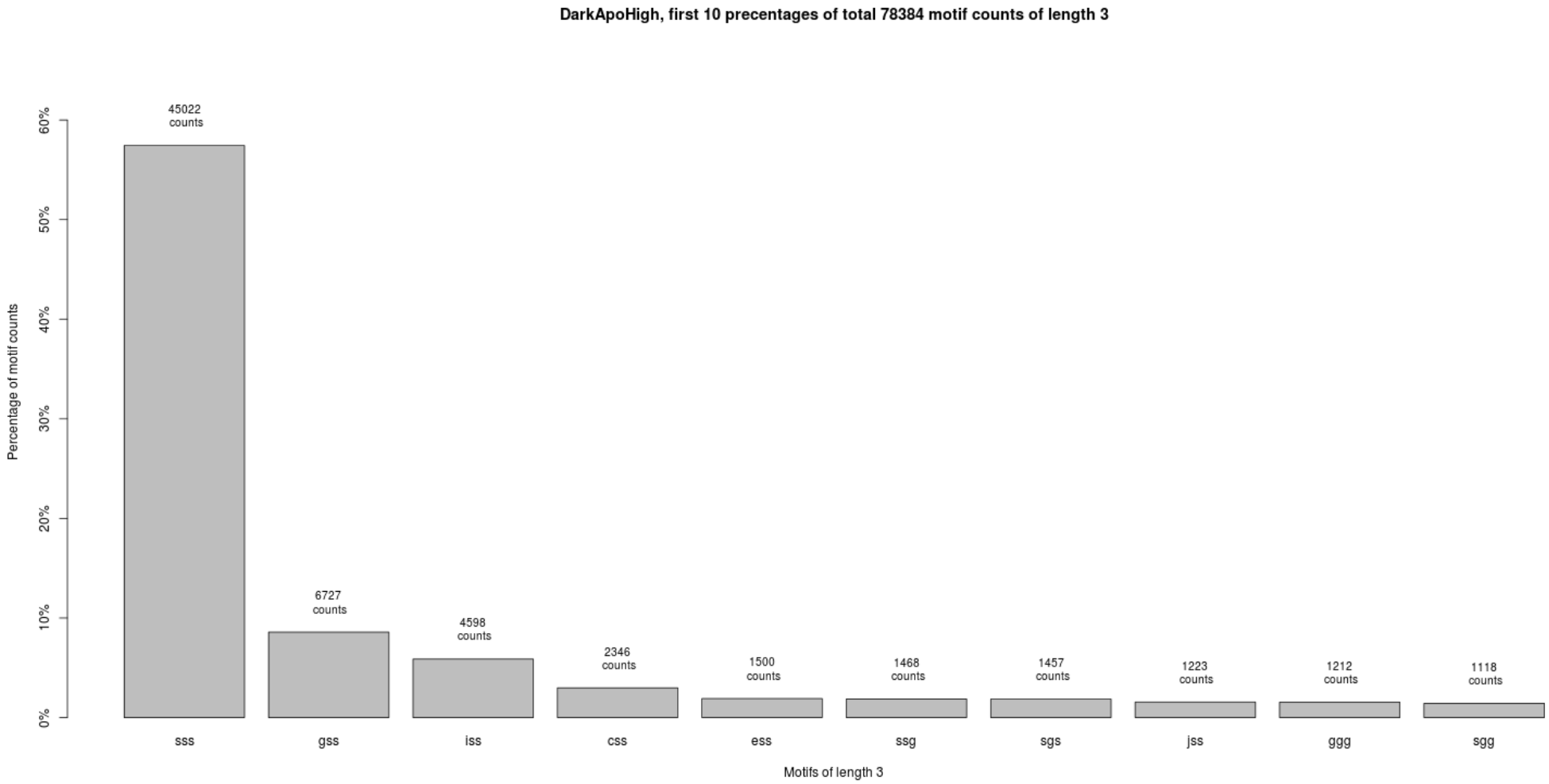
- (Dark)ApoLow:


DarkApoLow, first 10 precentages of total 10 motif counts of length 10
Percentage of motif counts
0%
10%
20%
30%
40%
50%
60%
70%
6
counts
1
counts
1
counts
1
counts
1
counts
sssssssss
esssseeee
osesssssee
scsssssss
sesssseee
Motifs of length 10

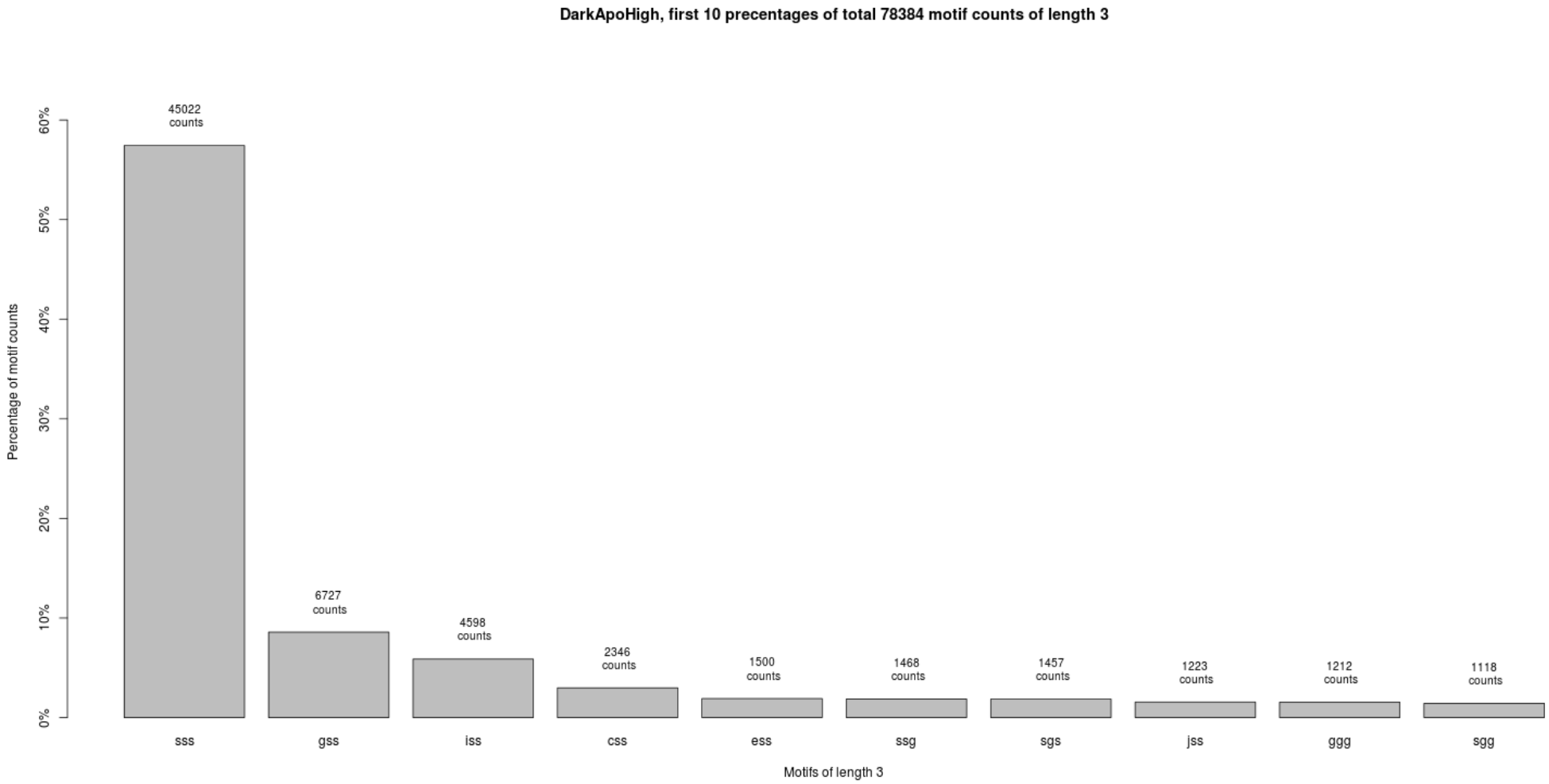
- 
- (Dark)ApoHigh:



- 
- (Dark)ApoHigh:



- 
- (Dark)ApoHigh:



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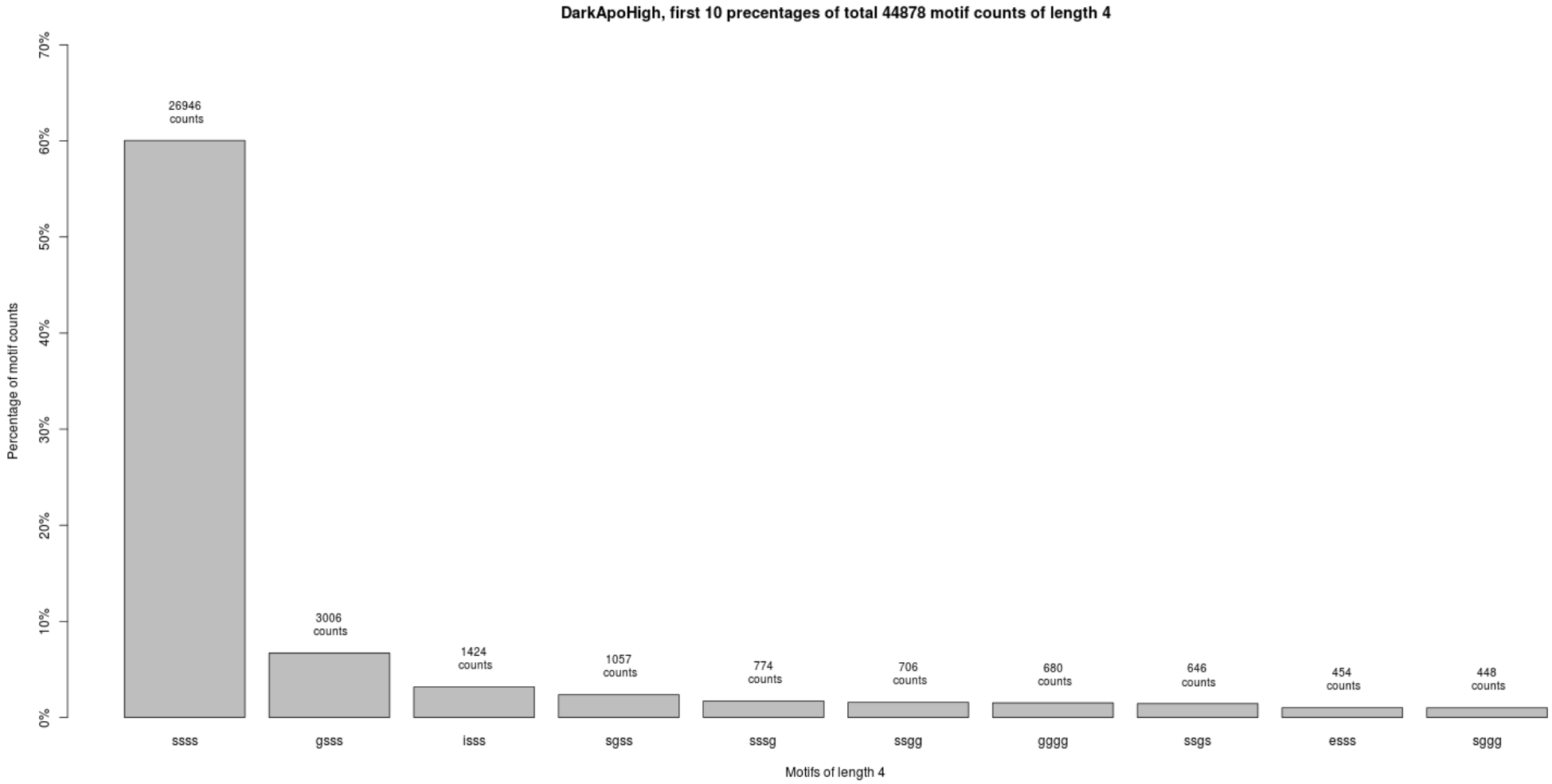

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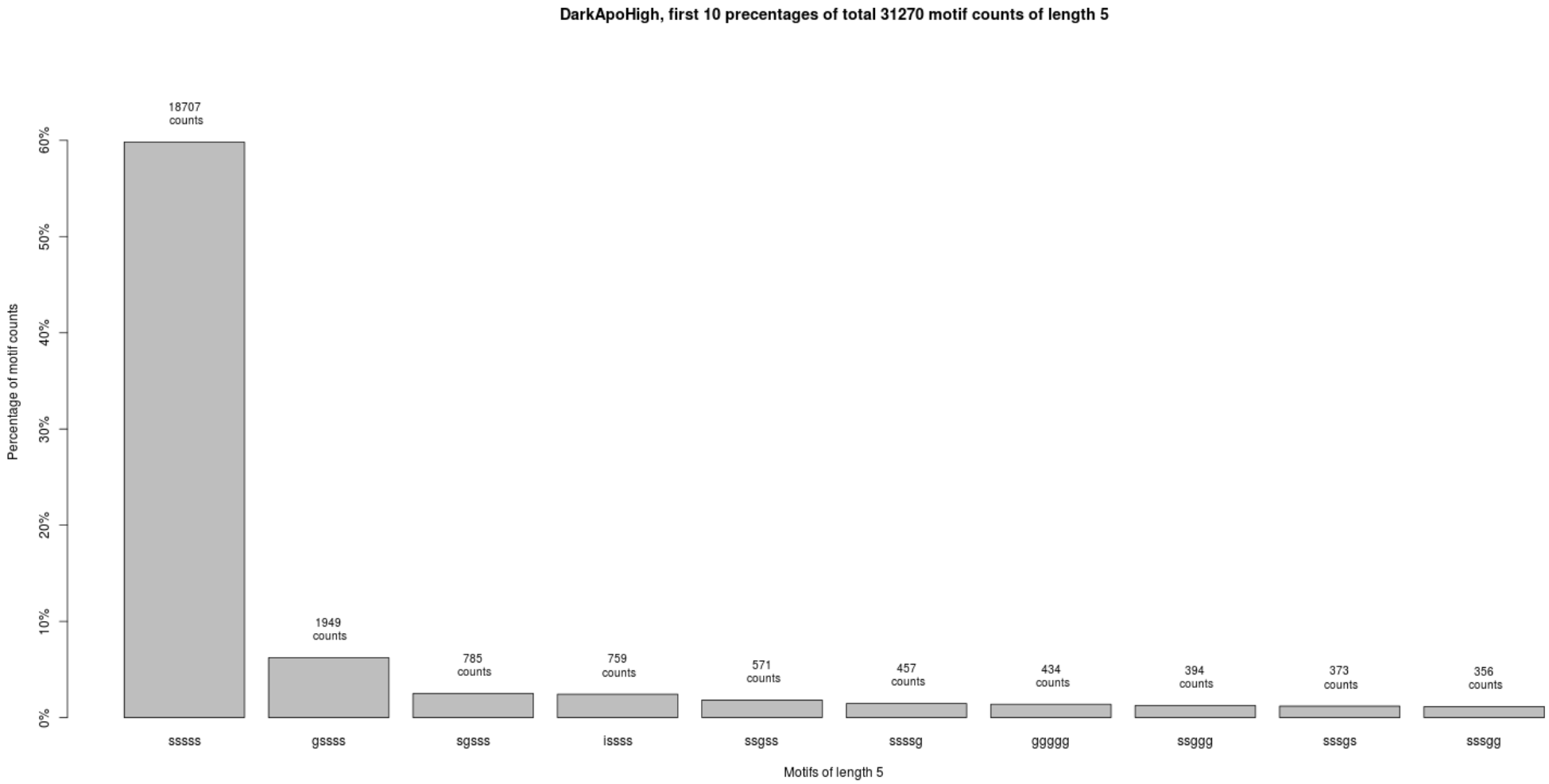

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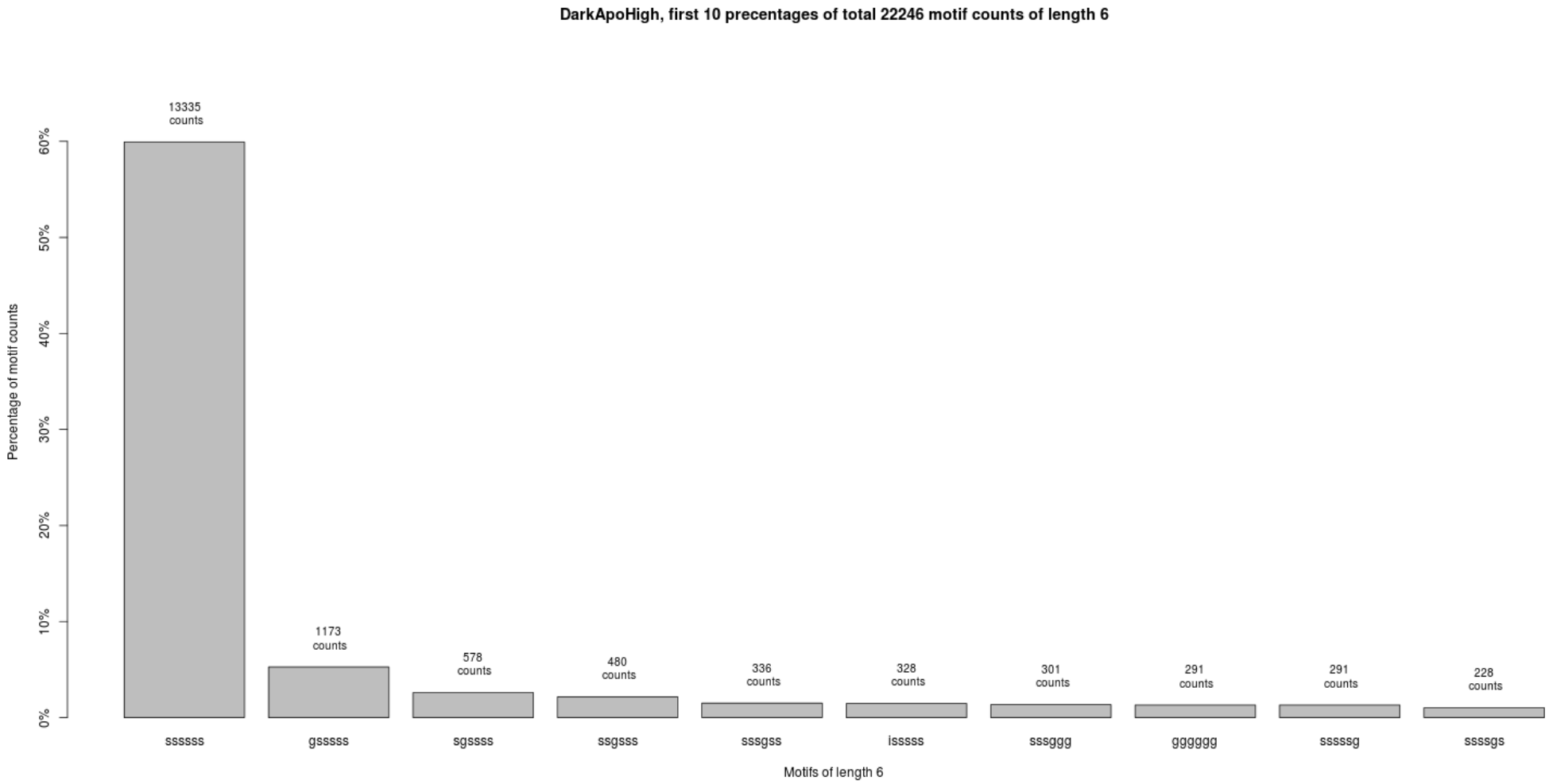

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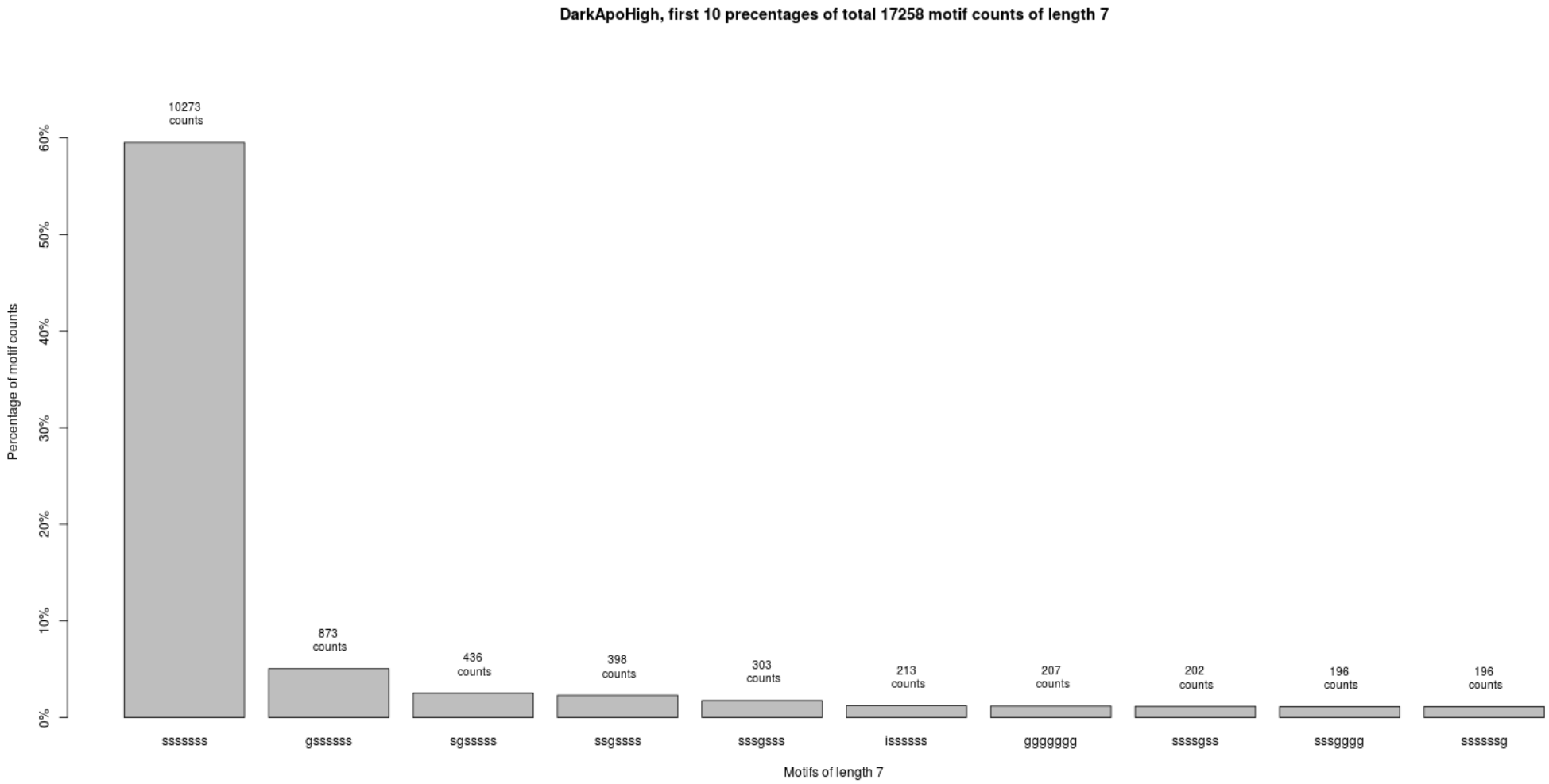

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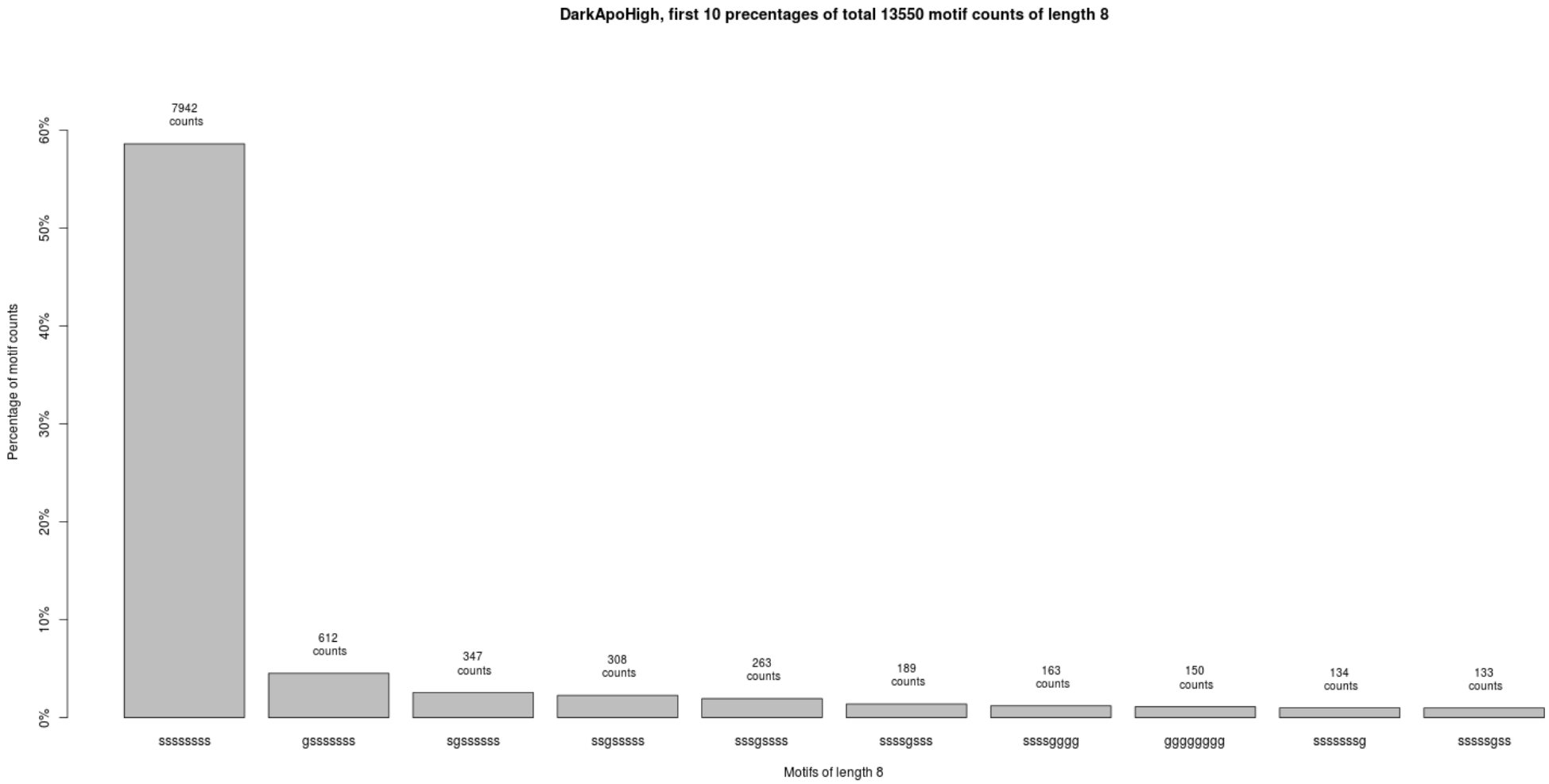

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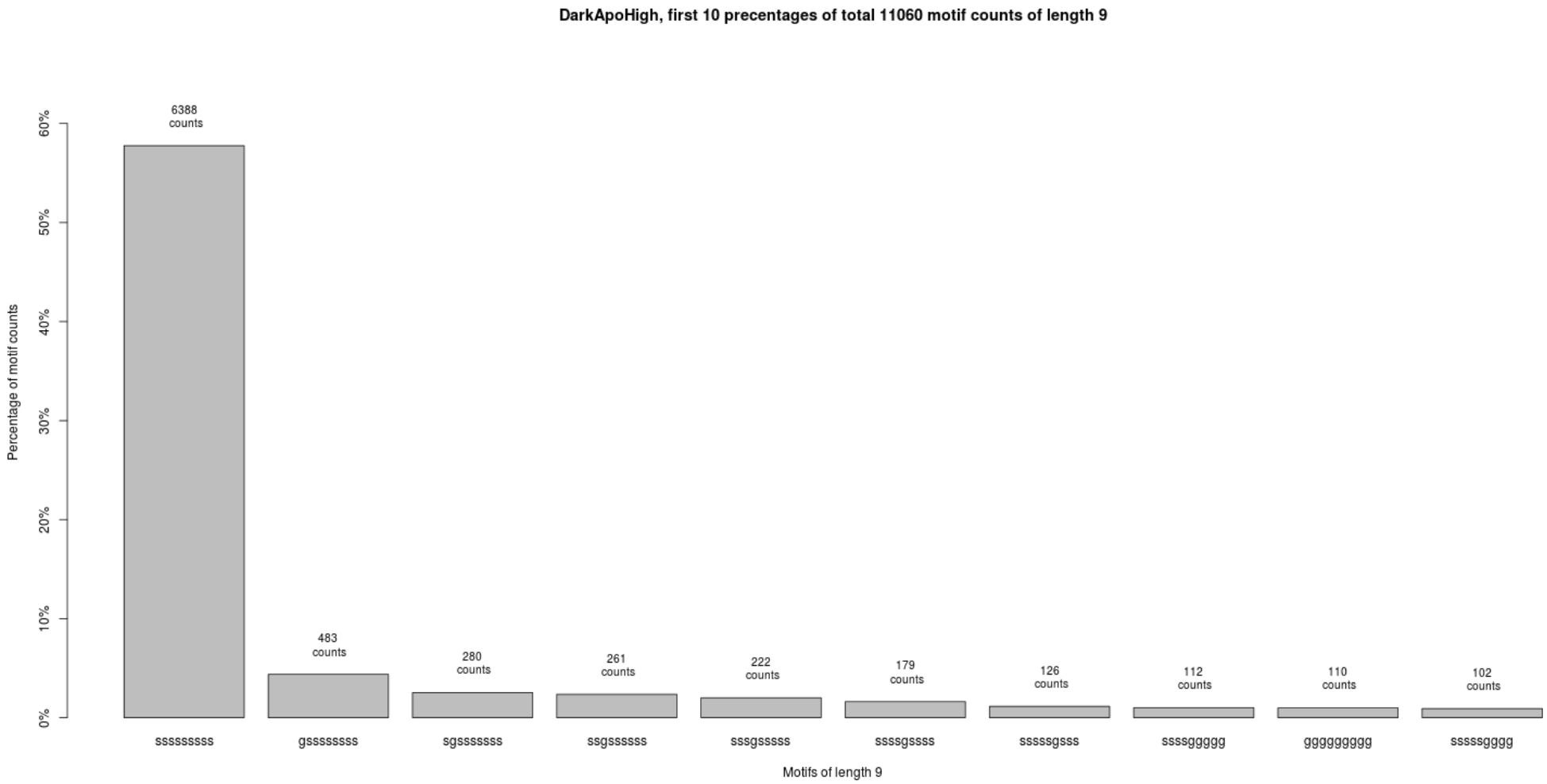
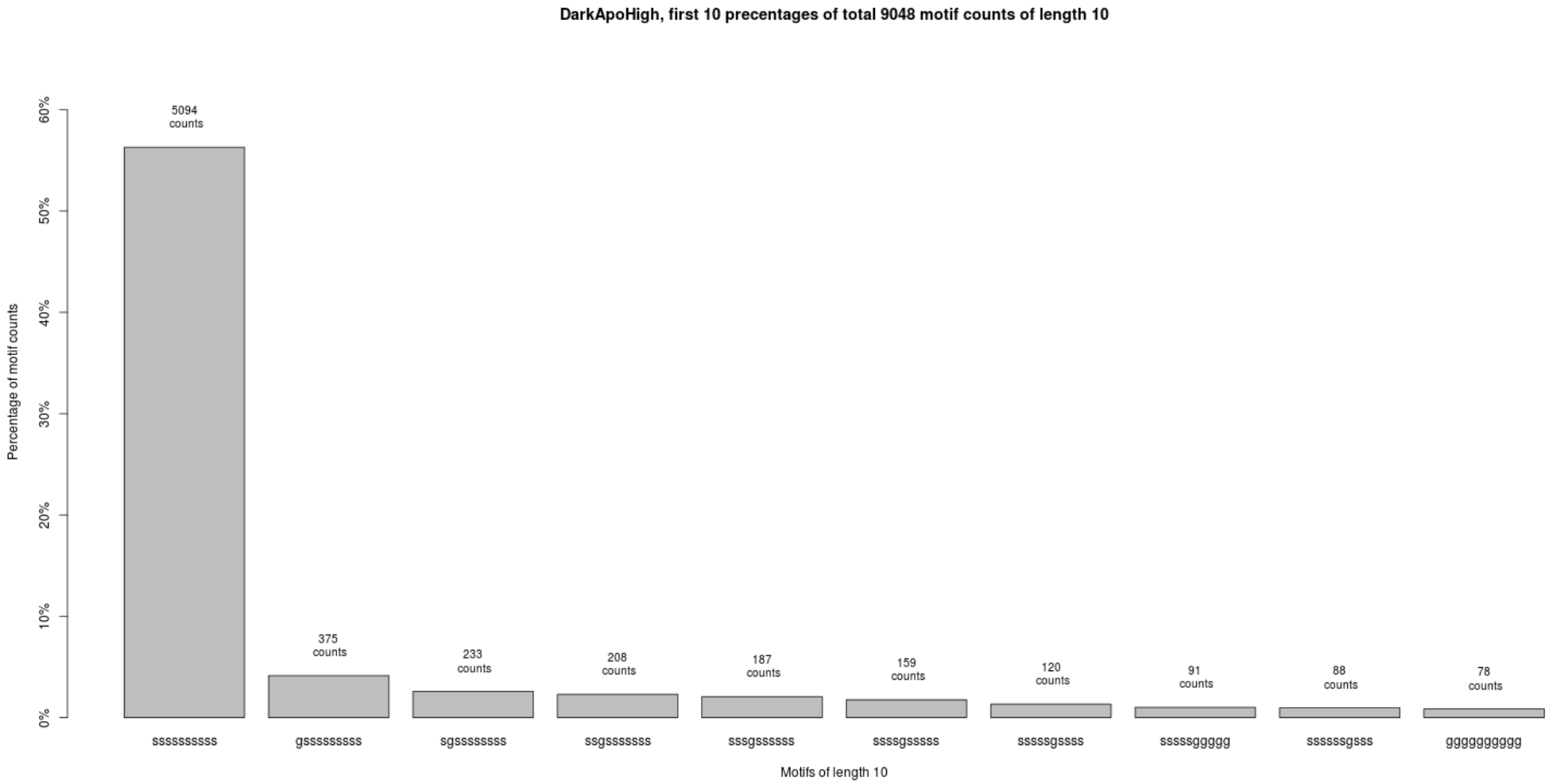
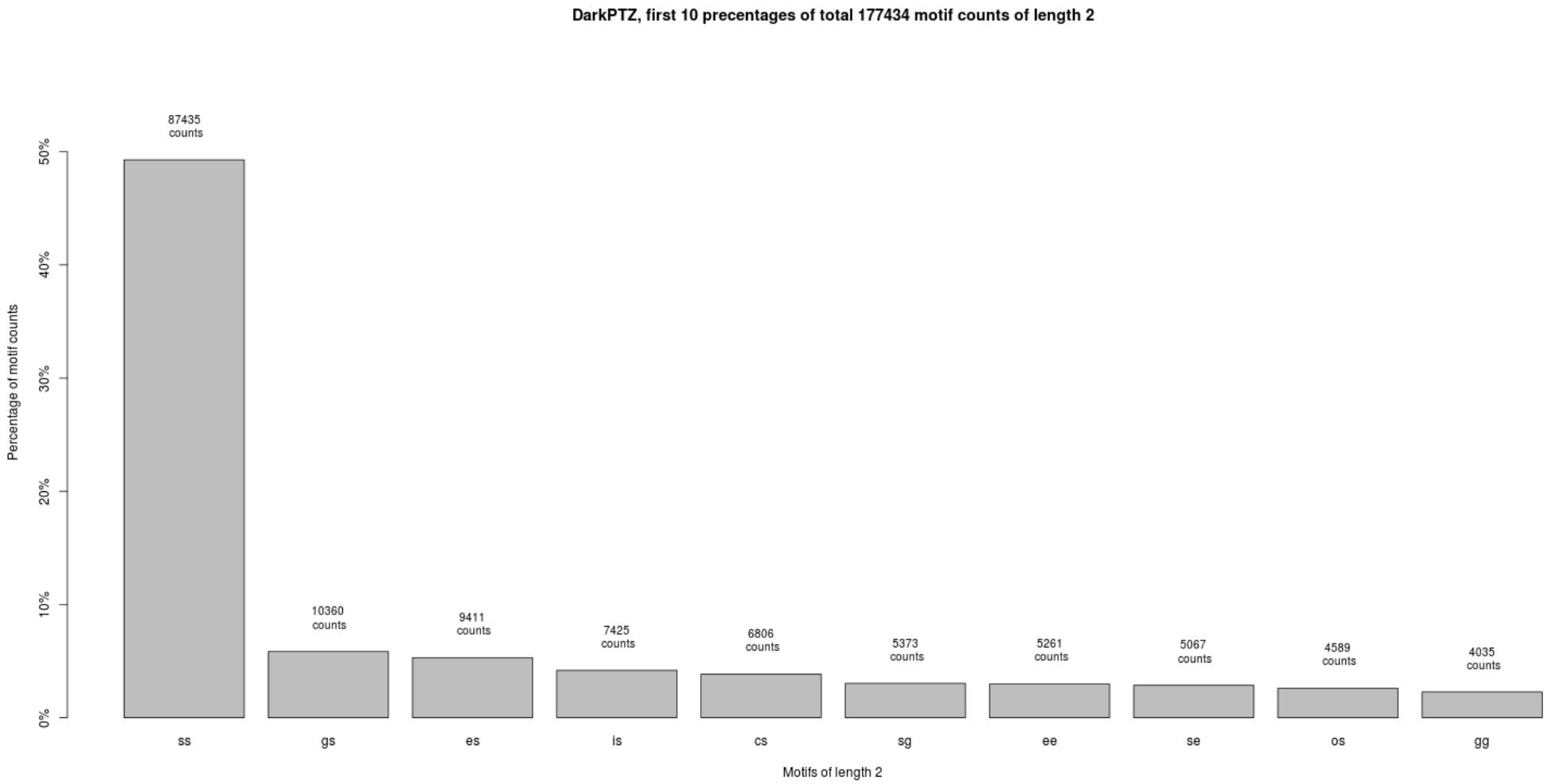


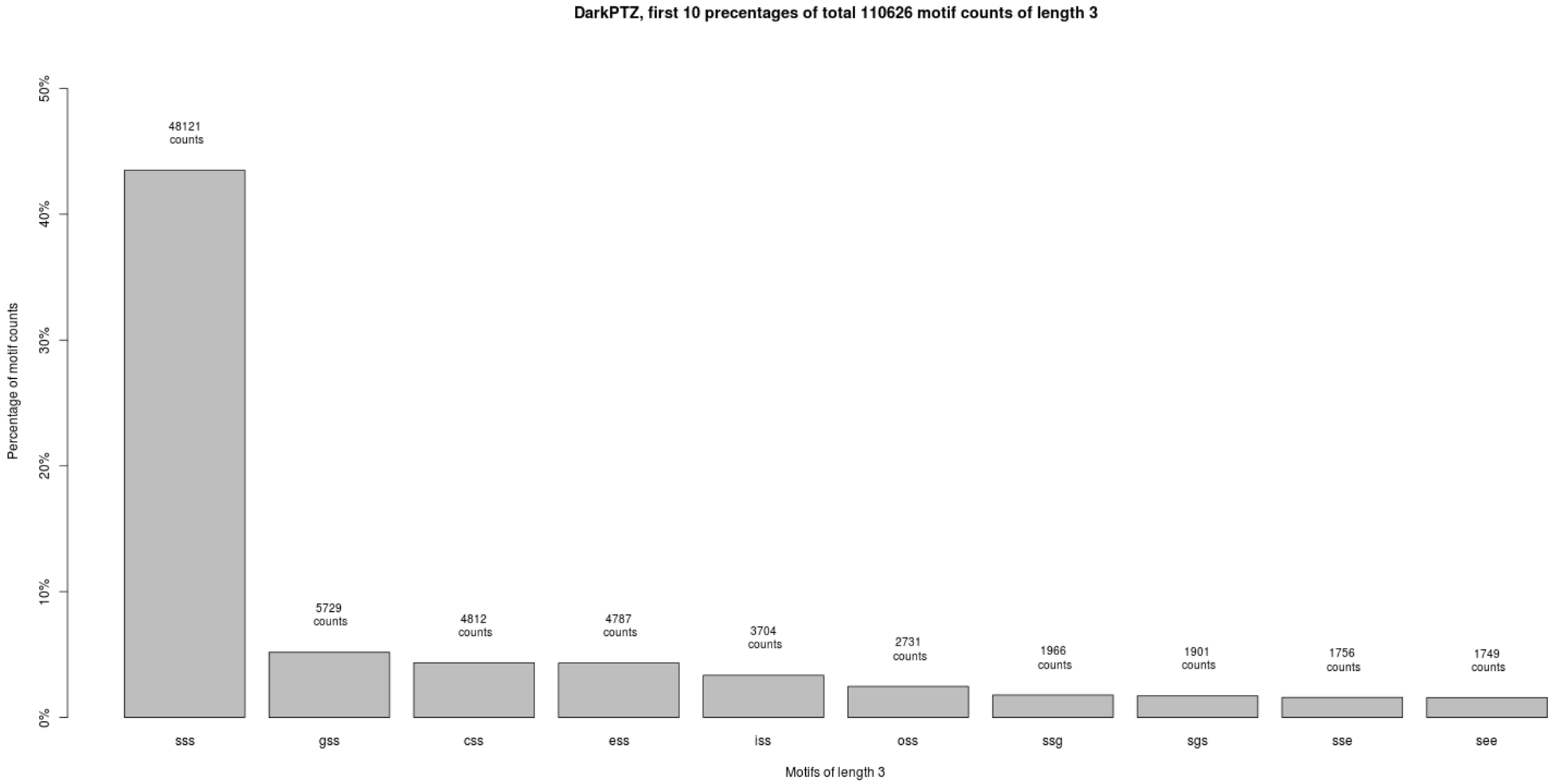
- (Dark)ApoHigh:



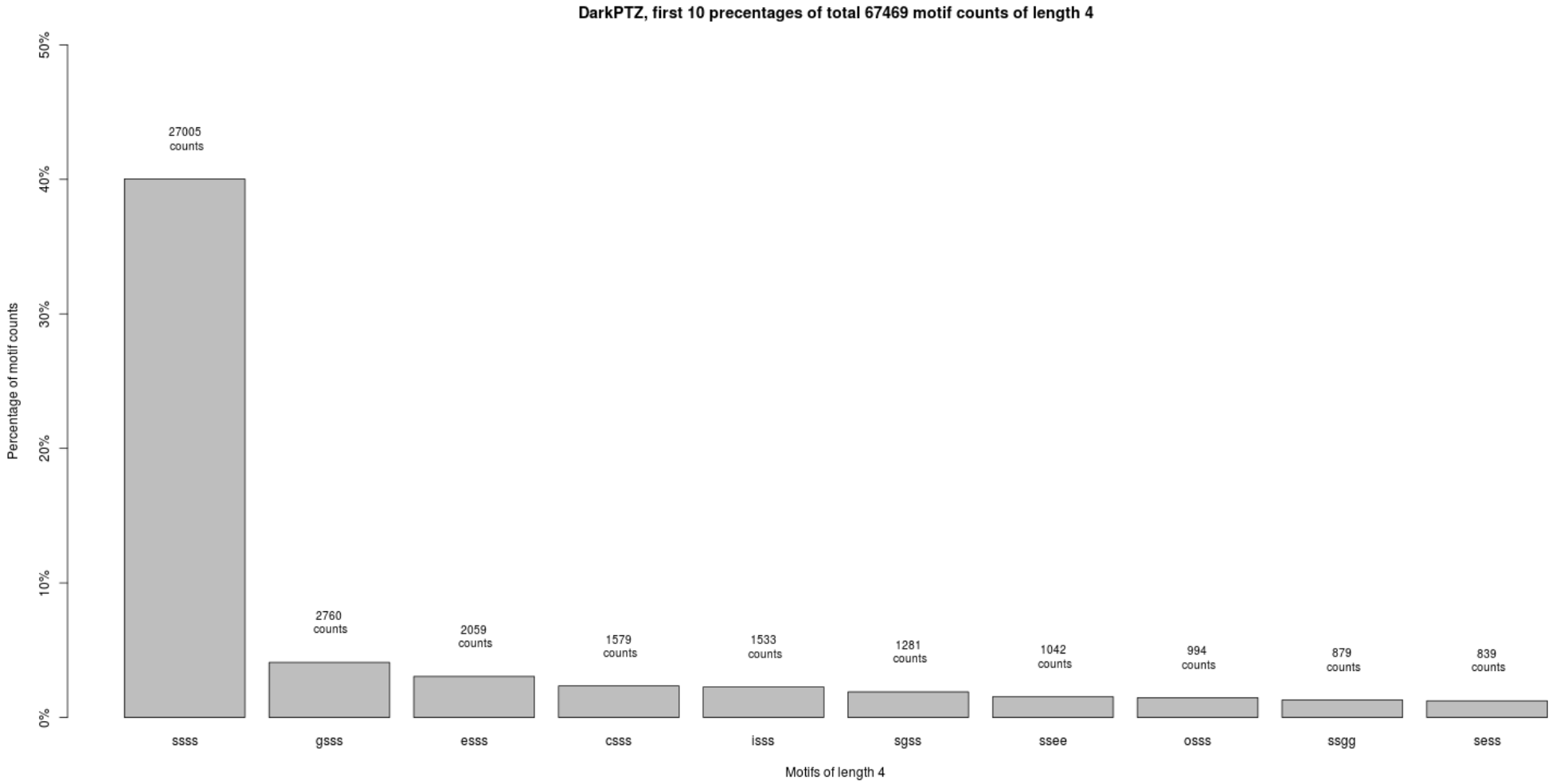
- (Dark)PTZ:


DarkPTZ, first 10 precentages of total 177434 motif counts of length 2
Percentage of motif counts
0%
10%
20%
30%
40%
50%
87435 counts
10360 counts
9411 counts
7425 counts
6806 counts
5373 counts
5261 counts
5067 counts
4589 counts
4035 counts
ss
gs
es
is
cs
sg
ee
se
os
gg
Motifs of length 2

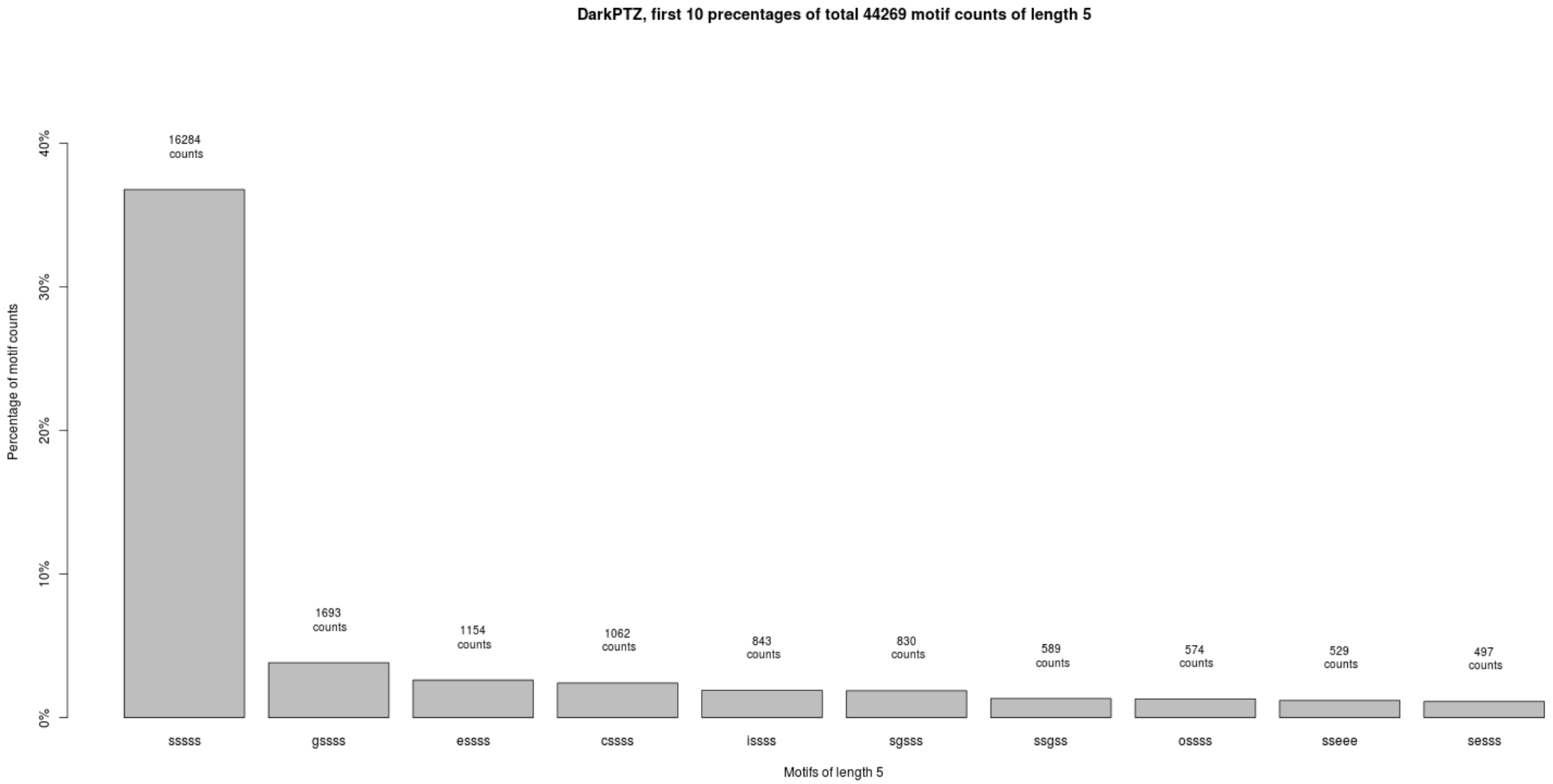
- (Dark)PTZ:


DarkPTZ, first 10 precentages of total 110626 motif counts of length 3
Percentage of motif counts
0%
10%
20%
30%
40%
50%
48121 counts
5729 counts
4812 counts
4787 counts
3704 counts
2731 counts
1966 counts
1901 counts
1756 counts
1749 counts
sss
gss
css
ess
iss
oss
ssg
sgs
sse
see
Motifs of length 3

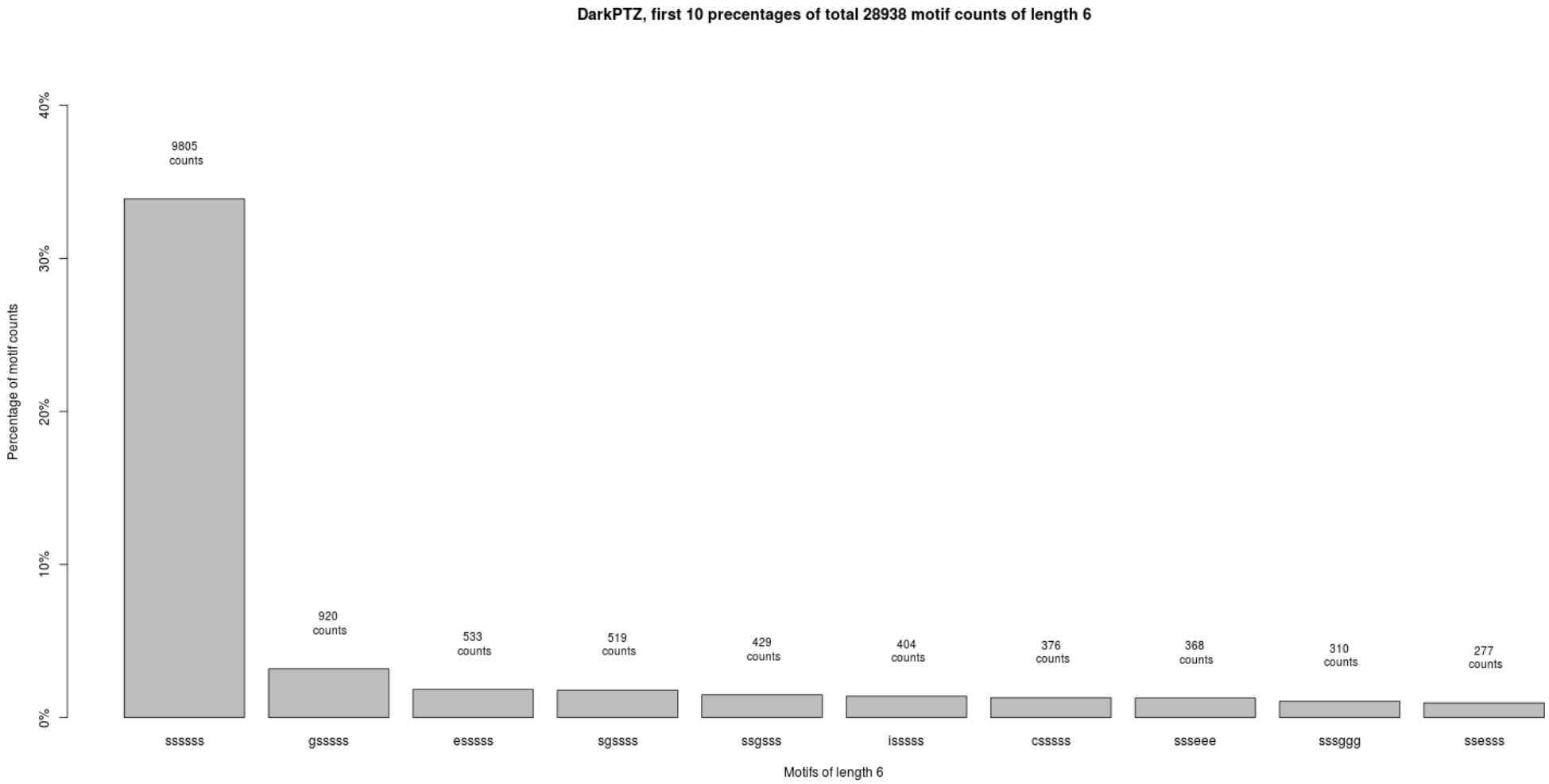
- 
- (Dark)PTZ:


DarkPTZ, first 10 precentages of total 67469 motif counts of length 4
Percentage of motif counts
0%
10%
20%
30%
40%
50%
27005 counts
2760 counts
2059 counts
1579 counts
1533 counts
1281 counts
1042 counts
994 counts
879 counts
839 counts
ssss
gsss
esss
csss
isss
sgss
ssee
osss
ssgg
sess
Motifs of length 4

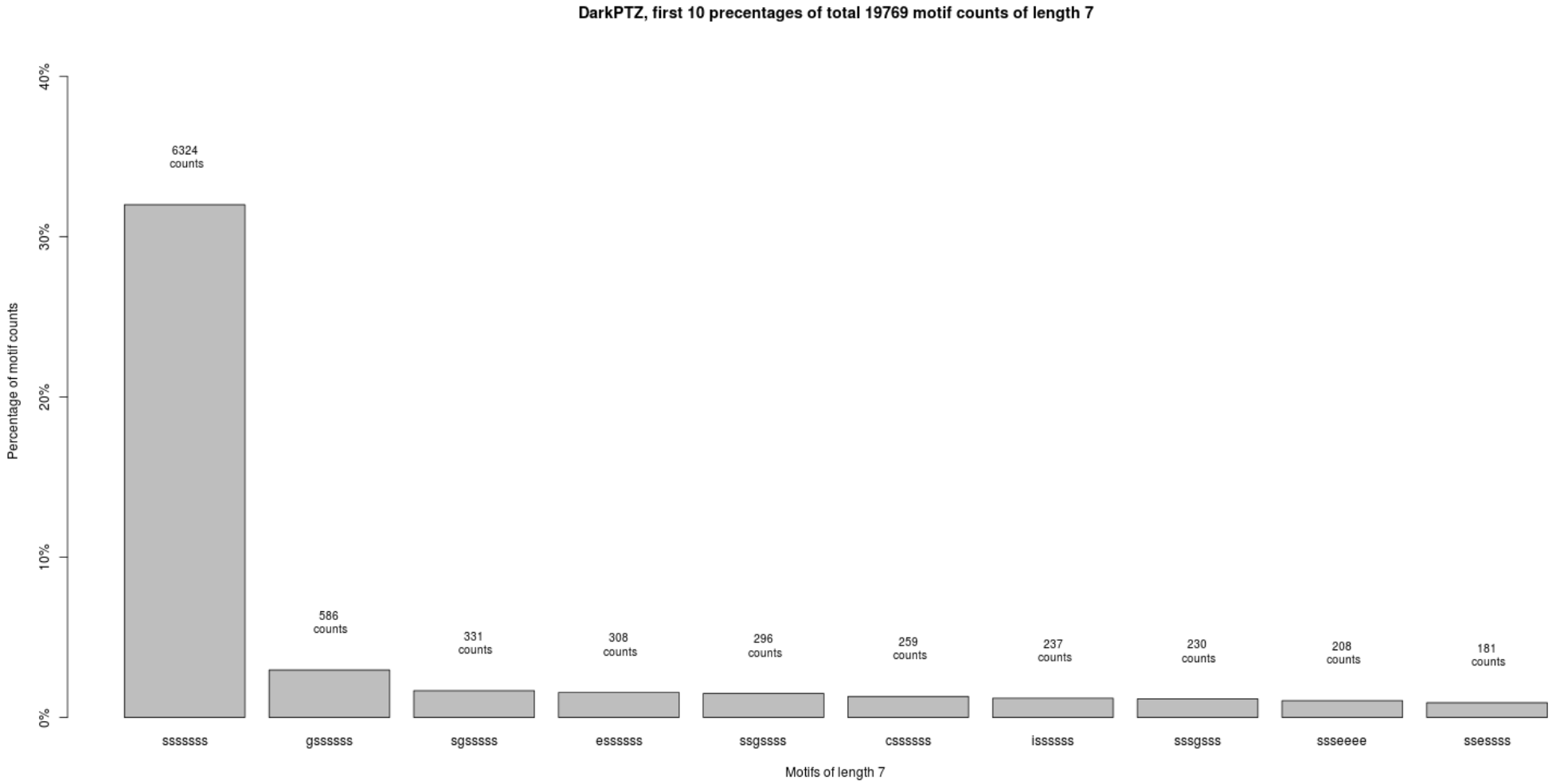
- 
- (Dark)PTZ:


DarkPTZ, first 10 precentages of total 44269 motif counts of length 5
Percentage of motif counts
0%
10%
20%
30%
40%
16284 counts
1693 counts
1154 counts
1062 counts
843 counts
830 counts
589 counts
574 counts
529 counts
497 counts
sssss
gssss
essss
cssss
issss
sgsss
ssgss
ossss
sseee
sesss
Motifs of length 5

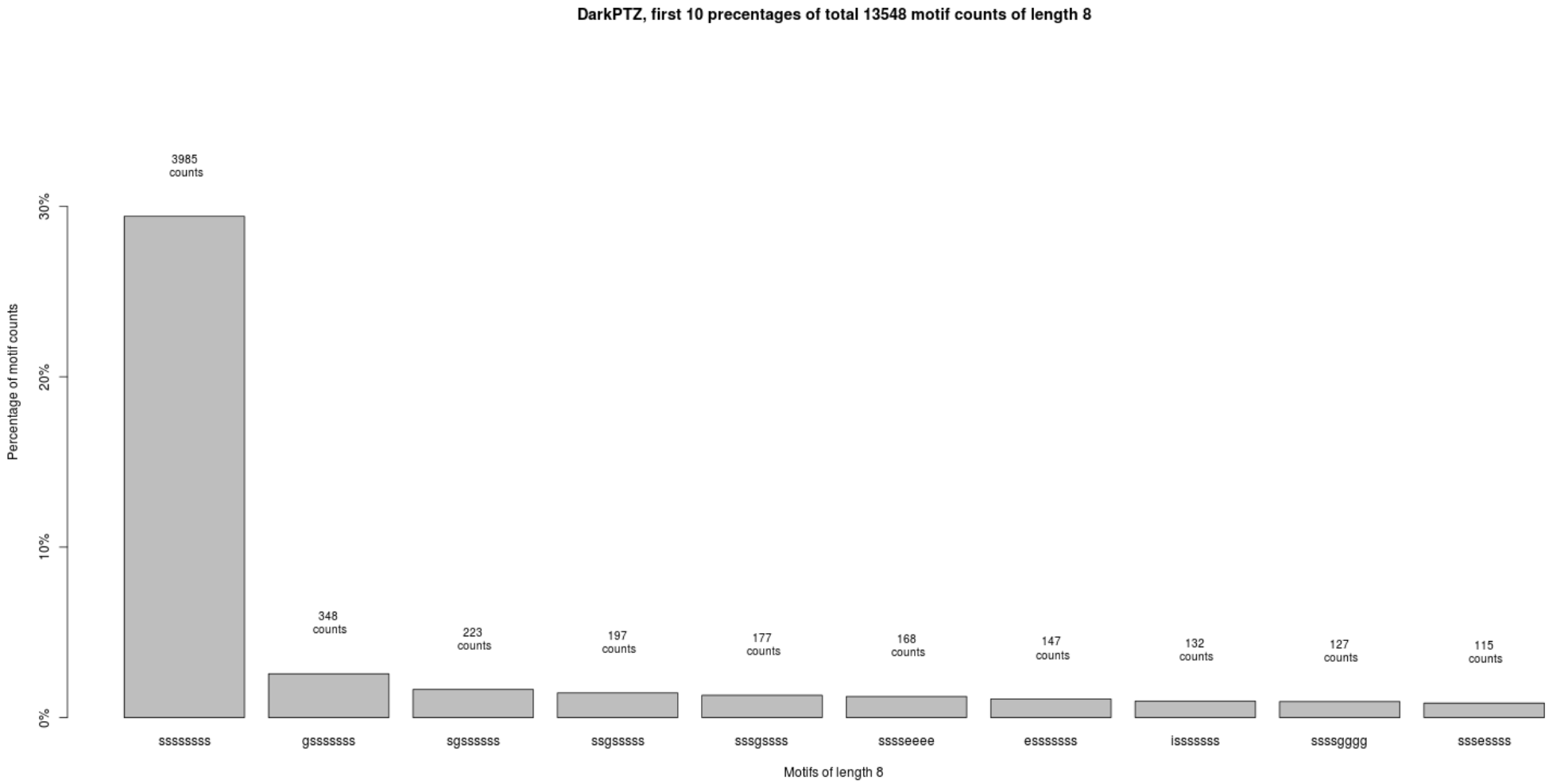
- 
- (Dark)PTZ:


DarkPTZ, first 10 precentages of total 28938 motif counts of length 6
Percentage of motif counts
0%
10%
20%
30%
40%
9805 counts
920 counts
533 counts
519 counts
429 counts
404 counts
376 counts
368 counts
310 counts
277 counts
ssssss
gsssss
esssss
sgssss
ssgsss
isssss
csssss
ssseee
sssggg
ssesss
Motifs of length 6

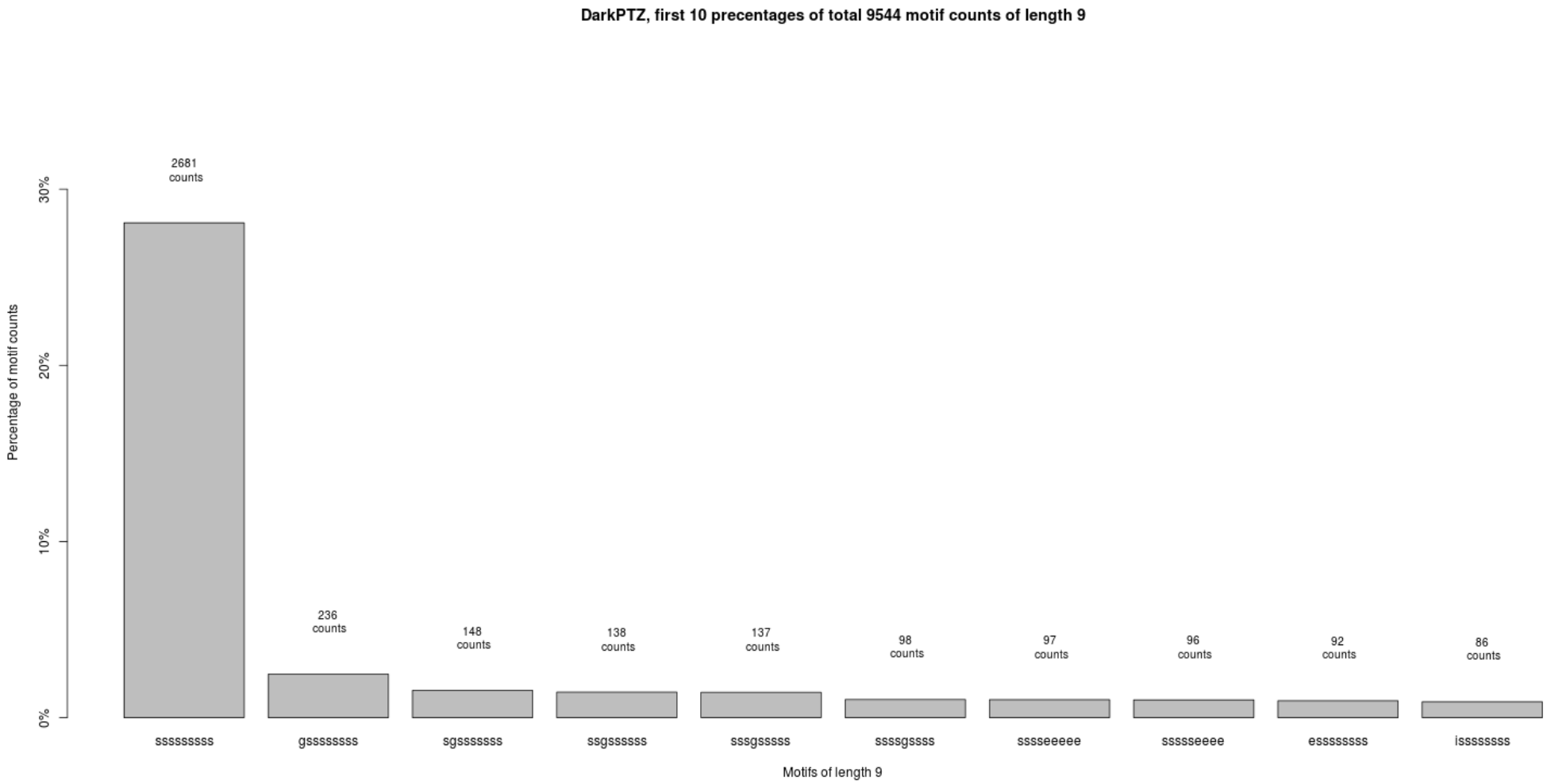
- 
- (Dark)PTZ:


DarkPTZ, first 10 precentages of total 19769 motif counts of length 7
Percentage of motif counts
0%
10%
20%
30%
40%
6324 counts
586 counts
331 counts
308 counts
296 counts
259 counts
237 counts
230 counts
208 counts
181 counts
sssssss
gssssss
sgsssss
esssssss
ssgssss
cssssss
issssss
sssgsss
sssseee
ssessss
Motifs of length 7

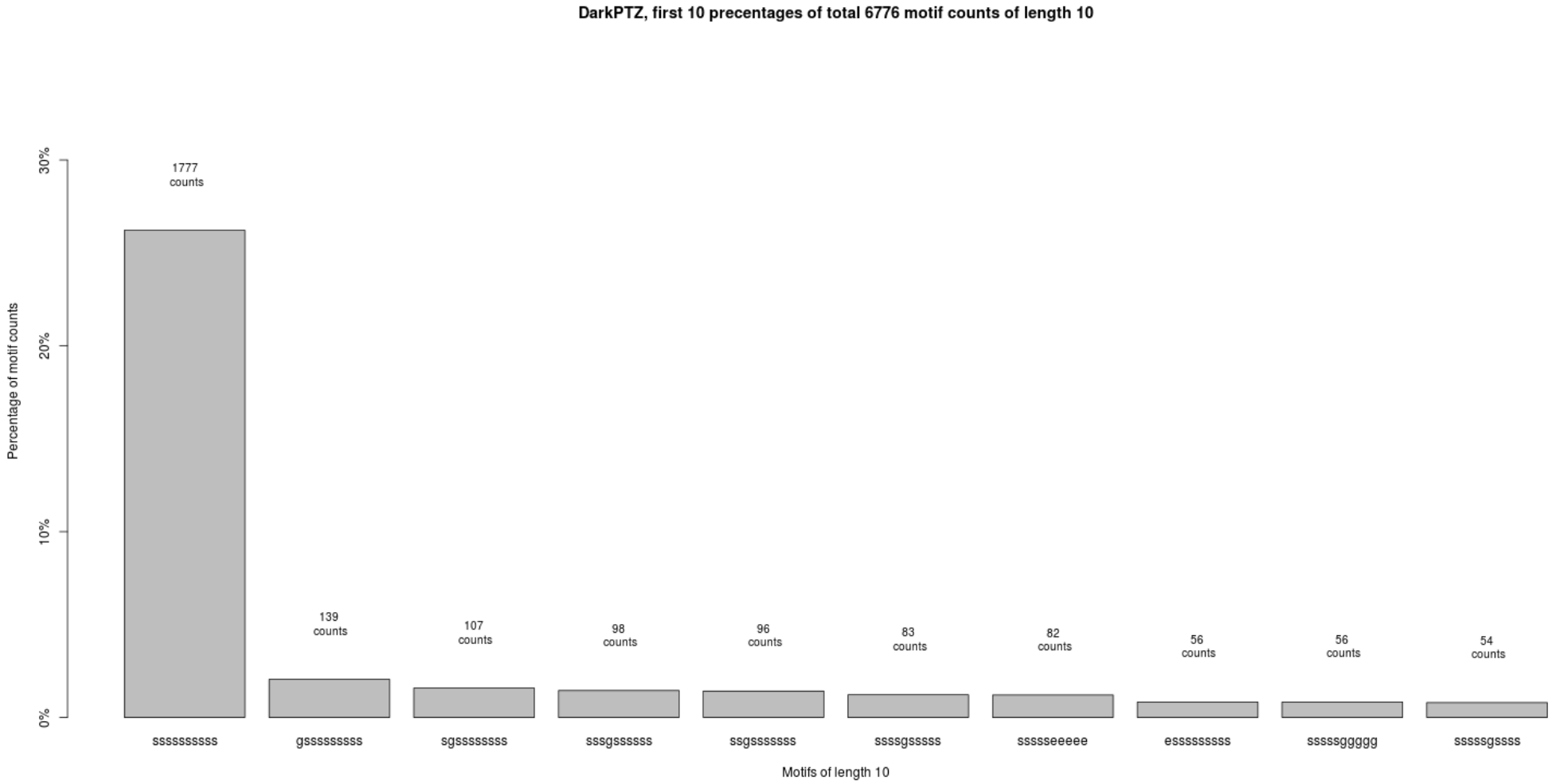
- 
- (Dark)PTZ:


DarkPTZ, first 10 precentages of total 13548 motif counts of length 8
Percentage of motif counts
0%
10%
20%
30%
3985 counts
348 counts
223 counts
197 counts
177 counts
168 counts
147 counts
132 counts
127 counts
115 counts
ssssssss
gssssssss
sgssssss
ssgsssss
sssgssss
sssseeee
esssssss
isssssss
ssssgggg
sssessss
Motifs of length 8

- 
- (Dark)PTZ:


DarkPTZ, first 10 precentages of total 9544 motif counts of length 9
Percentage of motif counts
0%
10%
20%
30%
2681 counts
236 counts
148 counts
138 counts
137 counts
98 counts
97 counts
96 counts
92 counts
86 counts
sssssssss
gsssssssss
sgsssssss
ssgssssss
sssgsssss
ssssgssss
sssseeeee
ssssseeee
essssssss
issssssss
Motifs of length 9

- 
- (Dark)PTZ:


DarkPTZ, first 10 precentages of total 6776 motif counts of length 10
Percentage of motif counts
0%
10%
20%
30%
1777 counts
139 counts
107 counts
98 counts
96 counts
83 counts
82 counts
56 counts
56 counts
54 counts
ssssssssss
gssssssss
sgssssssss
sssgssssss
ssgssssss
ssssgsssss
sssseeeee
essssssss
sssssgggg
sssssgssss
Motifs of length 10