a
Flow
Strong trap
Weak trap
b
Flow velocity
Weak trap
Strong trap
force (pN)
time (s)
0
5
10
15
20
25
30
35
0
20
40
60
80
100
c
strong trap force (pN)
weak trap displacement (nm)
0
5
10
15
20
25
30
0
20
40
60
80
100
120
140