

```

1  clear all
2  close all
3  clc
4
5  %opa129u
6  dat=load(' ../Messdaten/opa129u_rauschneu2.txt');
7  plot(1:length(dat),dat(:,2)*10^3)
8  std(dat(:,2))
9  rms=sqrt(sum((dat(:,2)-mean(dat(:,2))).^2)/length(dat))
10 n=0
11 for i=1:600:length(dat(:,2))
12     n=n+1;
13     if i+1200>=length(dat(:,2)) break
14     end
15 drift(n)=mean(dat(i+600:i+1200,2))-mean(dat(i:i+600,2));
16 end
17 figure
18 plot([1:length(drift)],10^6*abs(drift),'-o');
19 set(gca,'FontSize',14)
20 title('Drift des OPA129U mit 1GOhm Rückkoppelwiderstand')
21 xlabel('Zeit in Minuten');
22 ylabel('Drift in  $\mu\text{V}/\text{min}$ ')
23 print('-djpeg100',' ../Bilder/driftpa129U.jpg');
24
25 %femto
26 display('-----');
27 clear a;
28 dat2=load(' ../Messdaten/femto_rauschneu.csv');
29 figure
30 plot(1:length(dat2),(dat2(:,2)-mean(dat2(:,2)))*10^3,'k',1:length(dat(:,2)),10^3*(dat(:,2)-mean(dat(:,2))),'r');
31 std(dat2(:,2))
32 rms=sqrt(sum((dat2(:,2)-mean(dat2(:,2))).^2)/length(dat2))
33 n=0
34 for i=1:600:length(dat2(:,2))
35     n=n+1;
36     if i+1200>=length(dat2(:,2)) break
37     end
38 drift(n)=mean(dat2(i+600:i+1200,2))-mean(dat2(i:i+600,2));
39 end
40 figure
41 plot([1:length(drift)],10^6*abs(drift),'-o');
42 set(gca,'FontSize',14)
43 title('Drift des Femt- DLCPA 200 bei einer Verstärkung von  $10^9 \text{ V/A}$ ')
44 xlabel('Zeit in Minuten');
45 ylabel('Drift in  $\mu\text{V}/\text{min}$ ')
46 print('-djpeg100',' ../Bilder/driftfemto.jpg');
47
48 %drift

```