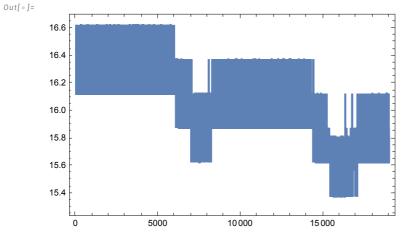
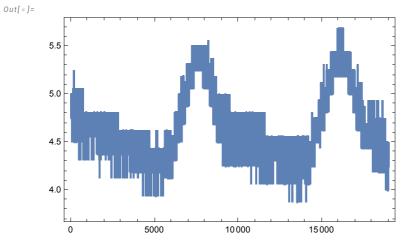
N=60000~79000

cross correlation (1) / Tc 4 vs Tc 5

```
In[*]:= b1 = Table[at[4, i], {i, 60 000, 79 000}];
In[*]:= b2 = Table[at[5, i], {i, 60 000, 79 000}];
In[*]:= ListPlot[b1, Joined → True, PlotRange → All, Axes → False, Frame → True]
```



In[*]:= ListPlot[b2, Joined \rightarrow True, PlotRange \rightarrow All, Axes \rightarrow False, Frame \rightarrow True]

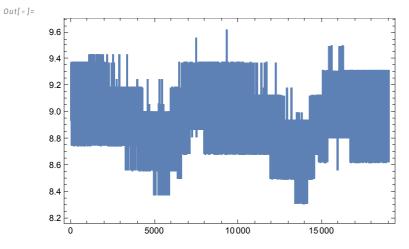


```
In[*]:= f1 = Fourier[b1];
 In[*]:= f2 = Conjugate[Fourier[b2]];
 In[ • ]:= ff = f1 * f2;
 In[@]:= c1 = Re[InverseFourier[ff]] / (Norm[b1] Norm[b2]);
 In[a]:= ListPlot[Re[c1], Joined \rightarrow True, PlotRange \rightarrow All, Axes \rightarrow False, Frame \rightarrow True]
Out[ • ]=
        0.007234
        0.007232
        0.007230
        0.007228
                             5000
                                           10 000
                                                          15000
 In[*]:= mc = Max[c1]
Out[ • ]=
        0.00723527
 In[\bullet]:= Z = 0;
 In[*]:= Do[If[c1[i]] == mc, z = i], {i, Length[c1]}]
 In[*]:= Print[z]
        4442
```

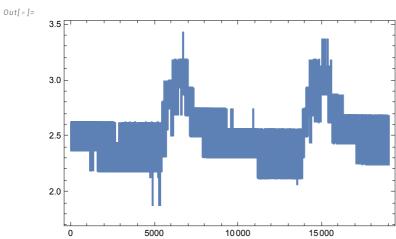
cross correlation (1) / Tc 6 vs Tc 7

```
In[@]:= b1 = Table[at[6, i], {i, 60000, 79000}];
In[*]:= b2 = Table[at[7, i], {i, 60000, 79000}];
```

In[*]:= ListPlot[b1, Joined → True, PlotRange → All, Axes → False, Frame → True]



In[*]:= ListPlot[b2, Joined → True, PlotRange → All, Axes → False, Frame → True]



In[*]:= f1 = Fourier[b1];

In[*]:= f2 = Conjugate[Fourier[b2]];

In[•]:= ff = f1 * f2;

In[@]:= c1 = Re[InverseFourier[ff]] / (Norm[b1] Norm[b2]);

log[*]:= ListPlot[Re[c1], Joined \rightarrow True, PlotRange \rightarrow All, Axes \rightarrow False, Frame \rightarrow True] Out[•]=

