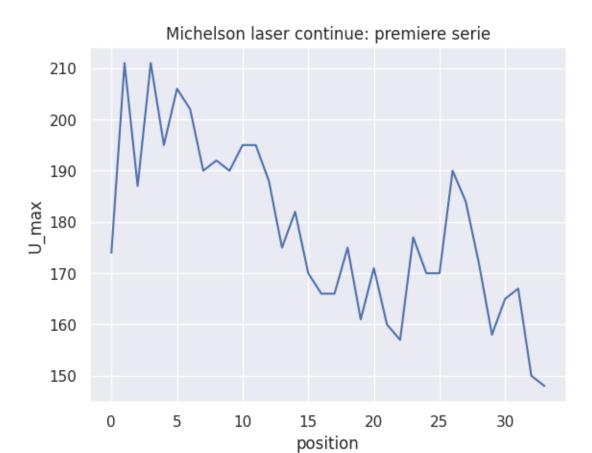
exp_michelson

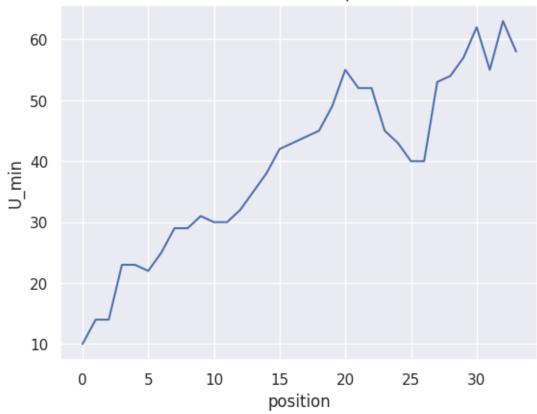
June 5, 2023

```
[]: import pandas as pd
     import numpy as np
     import matplotlib.pyplot as plt
     import seaborn as sn
[]: continue_data_1 = pd.read_csv("data_HeNe_michelson.csv")
     continue_data_2 = pd.read_csv("data2_HeNe_michelson.csv")
     pulsed_data = pd.read_csv("data_pulse_michelson.csv")
[]: x_1 = continue_data_1["x"]
     x_2 = continue_data_2["x"]
     x_p = pulsed_data["x"]
     U_max_1 = continue_data_1['Umax']
     U_min_1 = continue_data_1['Umin']
     U_max_2 = continue_data_2['Umax']
     U_min_2 = continue_data_2['Umin']
     U_max_p = pulsed_data['Umax']
     U_min_p = pulsed_data['Umin']
[ ]: n = 1
     sn.set()
     plt.figure(n)
     plt.plot(x_1, U_max_1)
     plt.title('Michelson laser continue: premiere serie')
     plt.xlabel('position')
     plt.ylabel('U_max')
     plt.show()
     sn.set_style("white")
     n=n+1
```



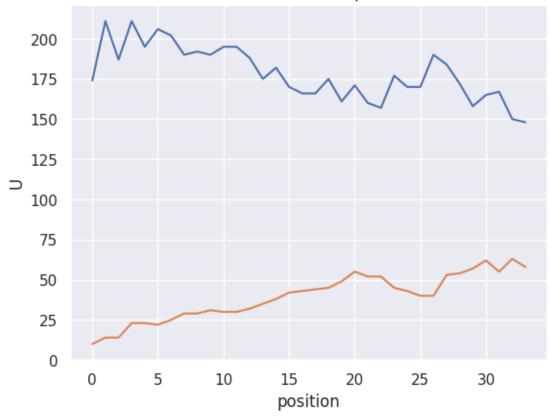
```
[]: sn.set()
  plt.figure(n)
  plt.plot(x_1, U_min_1)
  plt.title('Michelson laser continue: premiere serie')
  plt.xlabel('position')
  plt.ylabel('U_min')
  plt.show()
  sn.set_style("white")
  n=n+1
```



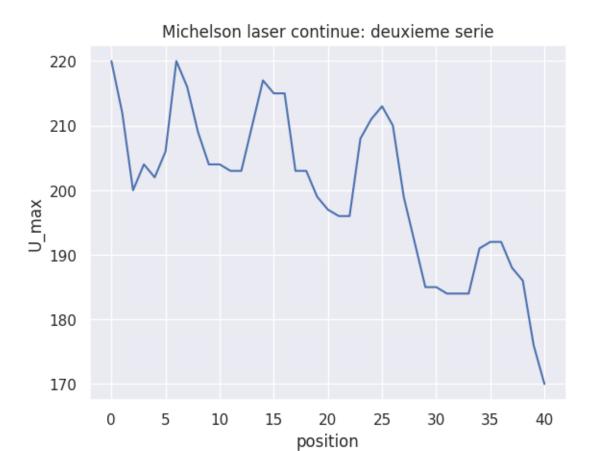


```
[]: sn.set()
  plt.figure(n)
  plt.plot(x_1, U_max_1)
  plt.plot(x_1, U_min_1)
  plt.title('Michelson laser continue: premiere serie')
  plt.xlabel('position')
  plt.ylabel('U')
  plt.show()
  sn.set_style("white")
  n=n+1
```

Michelson laser continue: premiere serie

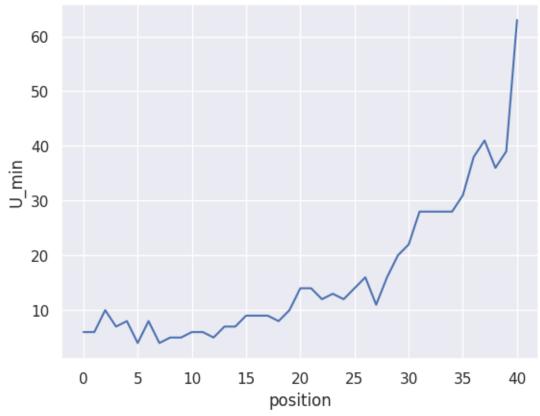


```
[]: sn.set()
  plt.figure(n)
  plt.plot(x_2, U_max_2)
  plt.title('Michelson laser continue: deuxieme serie')
  plt.xlabel('position')
  plt.ylabel('U_max')
  plt.show()
  sn.set_style("white")
  n=n+1
```



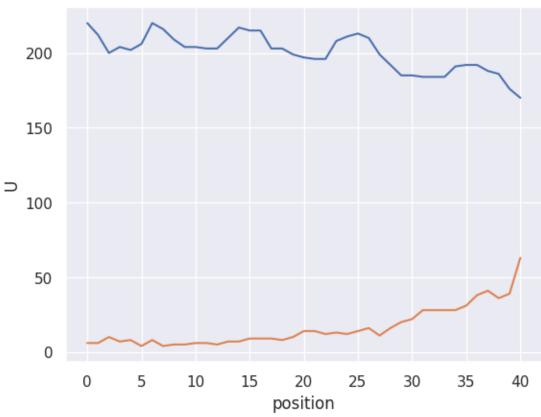
```
[]: sn.set()
  plt.figure(n)
  plt.plot(x_2, U_min_2)
  plt.title('Michelson laser continue: deuxieme serie')
  plt.xlabel('position')
  plt.ylabel('U_min')
  plt.show()
  sn.set_style("white")
  n=n+1
```





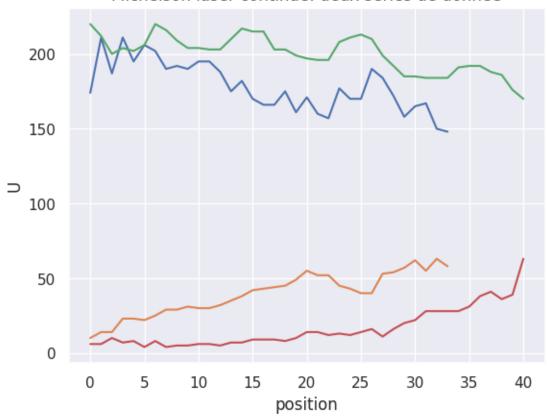
```
[]: sn.set()
  plt.figure(n)
  plt.plot(x_2, U_max_2)
  plt.plot(x_2, U_min_2)
  plt.title('Michelson laser continue: deuxieme serie')
  plt.xlabel('position')
  plt.ylabel('U')
  plt.show()
  sn.set_style("white")
  n=n+1
```



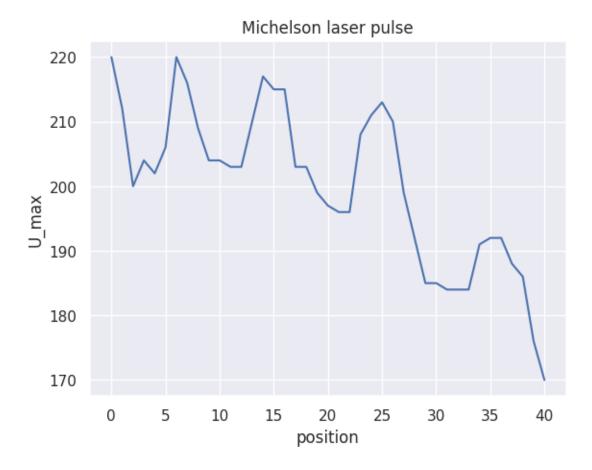


```
[]: sn.set()
   plt.figure(n)
   plt.plot(x_1, U_max_1)
   plt.plot(x_1, U_min_1)
   plt.plot(x_2, U_max_2)
   plt.plot(x_2, U_min_2)
   plt.title('Michelson laser continue: deux series de donnee')
   plt.xlabel('position')
   plt.ylabel('U')
   plt.show()
   sn.set_style("white")
   n=n+1
```

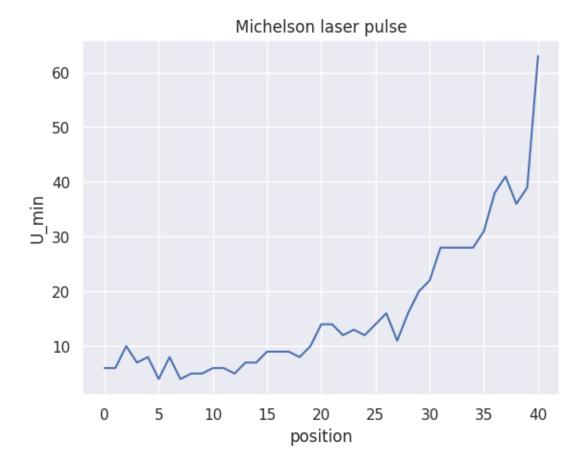




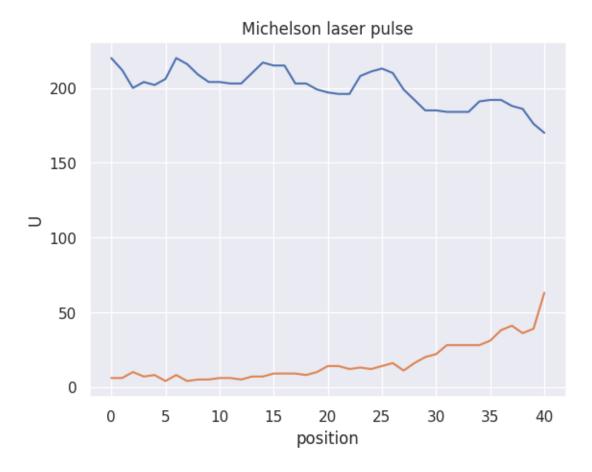
```
[]: sn.set()
  plt.figure(n)
  plt.plot(x_p, U_max_p)
  plt.title('Michelson laser pulse')
  plt.xlabel('position')
  plt.ylabel('U_max')
  plt.show()
  sn.set_style("white")
  n=n+1
```

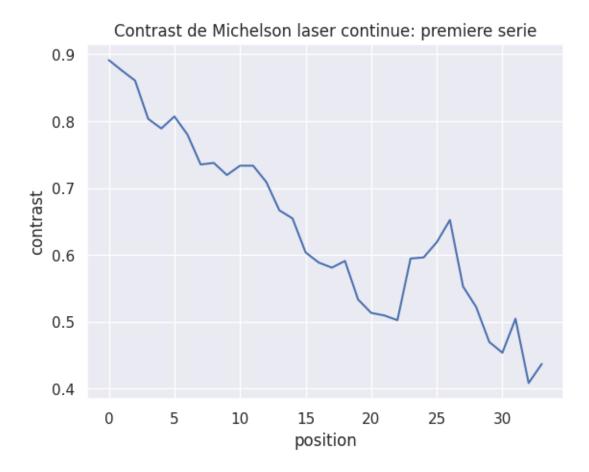


```
[]: sn.set()
  plt.figure(n)
  plt.plot(x_p, U_min_p)
  plt.title('Michelson laser pulse')
  plt.xlabel('position')
  plt.ylabel('U_min')
  plt.show()
  sn.set_style("white")
  n=n+1
```

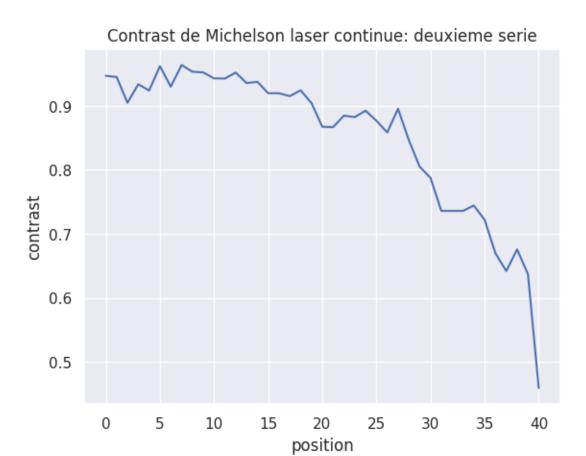


```
[]: sn.set()
  plt.figure(n)
  plt.plot(x_p, U_max_p)
  plt.plot(x_p, U_min_p)
  plt.title('Michelson laser pulse')
  plt.xlabel('position')
  plt.ylabel('U')
  plt.show()
  sn.set_style("white")
  n=n+1
```





```
[]: sn.set()
  plt.figure(n)
  plt.plot(x_2, contrast_cont_2)
  plt.title('Contrast de Michelson laser continue: deuxieme serie')
  plt.xlabel('position')
  plt.ylabel('contrast')
  plt.show()
  sn.set_style("white")
  n=n+1
```



```
[]: sn.set()
  plt.figure(n)
  plt.plot(x_p, contrast_cont_p)
  plt.title('Contrast de Michelson laser pulse')
  plt.xlabel('position')
  plt.ylabel('contrast')
  plt.show()
  sn.set_style("white")
  n=n+1
```

