

In [56]:

```
import matplotlib.pyplot as plt
import pandas as pd
import numpy as np

%matplotlib inline
```

In [69]:

```
df = pd.read_csv('dist2.dat', sep=' ')
df[0:4]
```

Out[69]:

		SEW1_COLLIAUX_1	SEW1_COLLIAUX_2	SEW1_COLLIAUX_3	SEW1_COLLIAUX_4
SEW1_COLLIAUX_1	NaN	0.000000	-2.635423	-4.094205	
SEW1_COLLIAUX_2	NaN	-2.635423	0.000000	-6.729628	
SEW1_COLLIAUX_3	NaN	-4.094205	-6.729628	0.000000	
SEW1_COLLIAUX_4	NaN	-1.237127	-1.572517	-1.813397	

In [70]:

```
df = df[0:4]
df = df.reset_index().set_index('level_0').drop(axis=1, columns=['level_1', 'Unnamed: 4'])
df['SEW1_COLLIAUX_1'] = pd.to_numeric(df['SEW1_COLLIAUX_1'])
df['SEW1_COLLIAUX_2'] = pd.to_numeric(df['SEW1_COLLIAUX_2'])
df.dtypes
```

Out[70]:

```
SEW1_COLLIAUX_1    float64
SEW1_COLLIAUX_2    float64
SEW1_COLLIAUX_3    float64
SEW1_COLLIAUX_4    float64
dtype: object
```

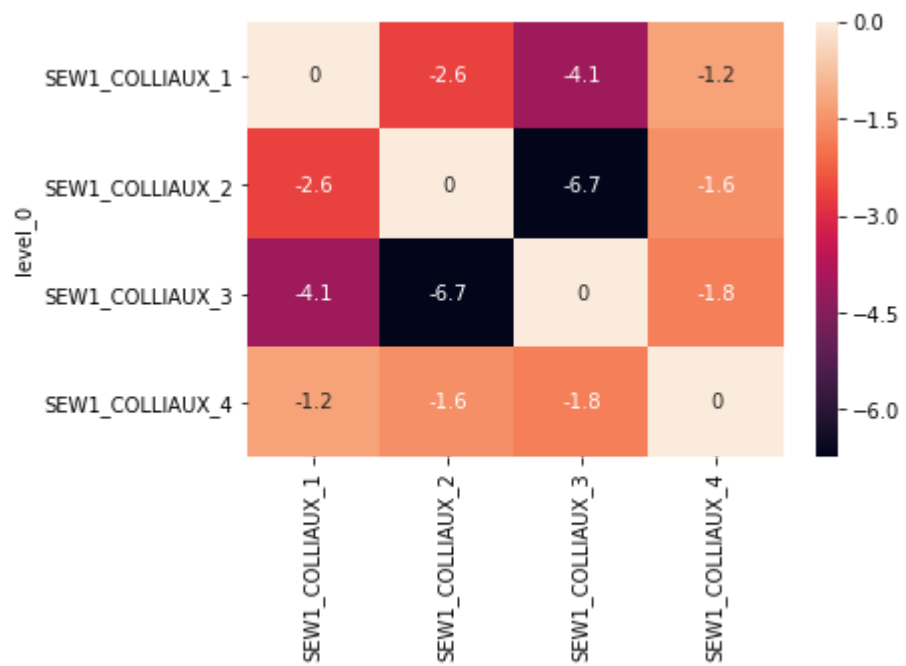
In [71]:

```
import seaborn as sns

sns.heatmap(df, annot=True)
```

Out[71]:

<matplotlib.axes.\_subplots.AxesSubplot at 0x1032f5190>



In [72]:

```
df.style.background_gradient(cmap='summer')
```

Out[72]:

	SEW1_COLLIAUX_1	SEW1_COLLIAUX_2	SEW1_COLLIAUX_3	SEW1_COLLI
level_0				
SEW1_COLLIAUX_1	0	-2.63542	-4.09421	-1
SEW1_COLLIAUX_2	-2.63542	0	-6.72963	-1
SEW1_COLLIAUX_3	-4.09421	-6.72963	0	-
SEW1_COLLIAUX_4	-1.23713	-1.57252	-1.8134	

In [101]:

```
df2 = pd.read_csv('Contig.csv', sep=' ', header=None)
```

```
/Users/cosy/anaconda3/lib/python2.7/site-packages/ipykernel_launcher.py:1: ParserWarning: Falling back to the 'python' engine because the 'c' engine does not support regex separators (separators > 1 char and different from '\s+' are interpreted as regex); you can avoid this warning by specifying engine='python'.
```

```
"""Entry point for launching an IPython kernel.
```

In [103]:

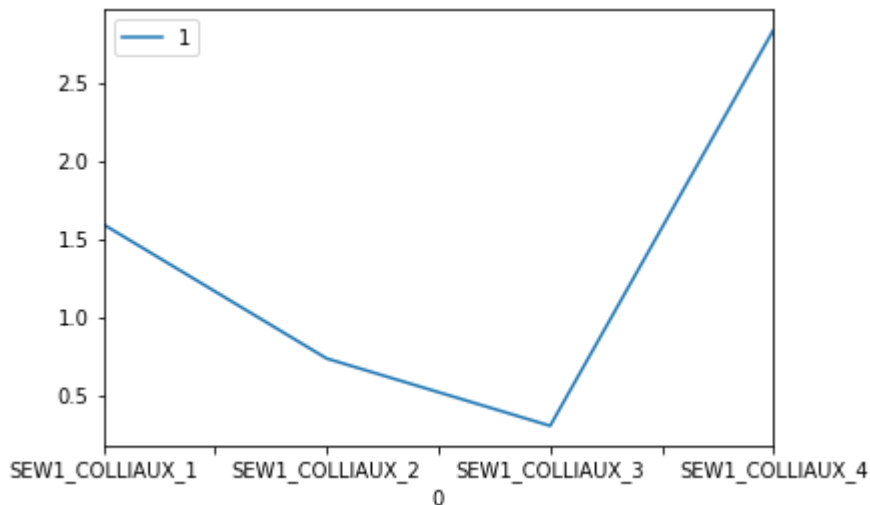
```
df2=df2.drop(axis=1,columns=[2]).sort_values(0)
```

In [104]:

```
df2.plot(x=0, y=1)
```

Out[104]:

<matplotlib.axes.\_subplots.AxesSubplot at 0x1a165627d0>



In [ ]: