```
In [2]:
          import pandas as pd
          import seaborn as sns
          import matplotlib.pyplot as plt
          from matplotlib import rcParams
          from sklearn.cluster import DBSCAN
          from collections import Counter
          %matplotlib inline
          rcParams['figure.figsize'] = 7.5, 6
          sns.set_style('whitegrid')
          df = sns.load_dataset("iris")
          cols = ['comp da cepa', 'larg da cepa', 'comp da pétala', 'larg da pétala', 'espécie
          df.columns = cols
          X = df[cols[:4]].values
          y = df['espécie'].values
         modelo = DBSCAN(eps=0.8, min_samples=19).fit(X)
In [12]:
          print(modelo)
         DBSCAN(eps=0.8, min_samples=19)
In [13]: | outliers_df = pd.DataFrame(X)
          print(Counter(modelo.labels_))
         Counter({1: 94, 0: 50, -1: 6})
        filtro = modelo.labels_ == -1
In [14]:
          print(outliers_df[filtro])
                0
                    1
                        2
                              3
              5.1 2.5 3.0 1.1
         98
         105 7.6 3.0 6.6 2.1
         117 7.7 3.8 6.7 2.2
         118 7.7 2.6 6.9 2.3
         122 7.7 2.8 6.7 2.0
         131 7.9 3.8 6.4 2.0
In [16]: cores = modelo.labels_
          plt.scatter(X[:,2], X[:,1], c=cores, s=120)
          plt.xlabel('Comprimento da Pétala')
          plt.ylabel('largura da Cepa')
          plt.title('DBScan para detecção de Outlier')
          plt.show()
```

